

APPENDIX A: DNA SEQUENCES

>RXA00013-upstream

CTGCAGAAAATTCGGGACGCATGATTGCACATATTACCCGCACCGATTGTGATTCTTAGA
ACGCCACCTTATTCAGCACACTTGGCCGACGGCATGCACA

>RXA00013

ATGGAAGGCATGACTAATCCAGAGCAGACACATCCCGCTGCAAGCCTCGAAGACATGATC
AAAACCATCACAAAGACCTTCGTGATTGCTCACGATCAGGATTCTGATGAGCATCTTGCG
CAGGCACTGGTGTACAACGCTGGACGTTTGGCATGGCGCATGCGCGAAAACGGTGTGGAT
ACGGATTACAAGACTTCTGTGTCTGATGTGGTCACGGATGCCGATCGTGC GGCCGAGGCC
TTCGTGCGAGGCGTTCTTGAAGCGTTGCGGCCTGAGGACGGCGTGCTTGGCGAGGAAGGC
GCGGACCGGGCGTCGAAAAGCGGAAAACCTGGGTCTATCGACCCGGTTGATGGCACCTAC
AACTTCACCCAGGGCTCAGATTATTGGTGCTCGGCGCTCGCGCTGGTCGAGGGCGATCCA
TCCGCGCCATCGCGCGTGCTTTTCGGCGCCGTACACCGCCCAGCCATGGGTTATACGTGG
TTCGGTGGCCCGGAATCCGCACCACGCTCGACGGCAAGGAGCTAGATTGCTTGTCTGAC
GCCCCCTCAATCAAATCTCCCTGGCCACCTACATCCACCCGTCACGCATCGCGGAACCT
GATATTCAAAGGCGTGGATGAGCGTTGCCACCCACCCTGCAACGCTGCGCATGTTCCGGC
GCCGGCTCCATCGATTGGCCAAACATCGCCGACGGCAGCATGGGCGCATGGGTGCAGCAC
AGCGTCGCAGATTGGGACTGGCTACCCGGCCGCGCACTCATCGAAGGCGTCGGCGGAGCG
TGCATCAAAGTGACCGCCGGCGCGTCGAATGGTCCGTTGCAGGAAACGCGGAAGCAGTT
AGTGAGATCTCCGAAACTTTAAGCGCACTAGAC

>RXA00013-downstream

TAGCAACACATGAGCAAAATATGC

>RXA00014-upstream

CATCAAAGTGACCGCCGGCGGCGTCGAATGGTCCGTGTCAGGAAACGCGGAAGCAGTTAG
TGAGATCTCCGAAACTTTAAGCGCACTAGACTAGCAACAC

>RXA00014

ATGAGCAAATATGCAGACGATTTAGCCTTAGCCCTCGAACTCGCCGAACTTGCCGATTCC
ATCACCCCTCGACCGCTTCGAAGCCTCTGACCTGGAAGTATCCTCCAAGCCAGACATGACT
CCCGTCAGCGATGCCGACCTGGCGACCGAAGAAGCACTCCGCGAGAAAATCGCCACCGCC
CGCCCCGCGGACTCCATCCTCGGTGAAGAATTCCGTGGCGACGTAGAATTCAGCGGCCGC
CAGTGGATCATCGACCCCATCGACGGCACCAAAAACCTACGTCCGCGGCGTCCCCGTATGG
GCAACCCTGATCGCGCTGCTCGACAACGGCAAACCCGTCGCAGGTGTCATCTCCGCACCC
GCACTGGCTAGGCGTTGGTGGGCATCCGAAGGGGCGGCGCATGGCGCACCTTCAACGGC
AGCTCCCCACGCAAACGTCCGTGTCCAGGTGTCCAAGCTTGACGACGCCTCCCTCTCC
TTCTCCTCCCTCTCCGGCTGGGCCGAACGAGATTTGCGCGATCAGTTCGTCTCCCTAACT
GATACCACCTGGCGACTCCGCGGCTACGGCGACTTCTTCTCCTACTGCCTCGTCGCCGAA
GGTGCCGTCGATATCGCCGCTGAACCAGAAGTCAGCCTCTGGGATCTTGCTCCCCGTGTCC
ATCCTGGTCACCGAAGCCGGAGGAAAGTTCACCTCACTGGCTGGCGTCGATGGACCACAC
GGTGGCGATGCAGTAGCCACCAACGGCATCCTGCACGATGAGACGCTGGATCGTTTAAAA

>RXA00014-downstream

TAGACTCCCGGGTTTTGCTTGGT

>RXA00030-upstream

TAAAAACGCCACTTTGGTGTGATAACACCGAACTTCCGAACATAAAAGATGCGTTGGTG
CTCTCTGCACAATGTTTCTTTCGGAACATTCTGGCGACC

>RXA00030

ATGCGAATTGAAATCACAAGCGTATTTGTTGATGACCAGGCCAAAGCACTCGATTTCTAC
ACCACGAAGCTCGGATTTGAGCTCAAACACGATGTAAGTGTGGTGACTACCGCTGGTTG
ACTGTTGTTGATCCAGAAAACCCAGATGGTGTGCAGCTTTTGTGGAAACCAACAGCAC
CCAGATGCAGCGACTTACCAAGCTGGAATTAACGAGACGGTATTCCTGCTACACAGTTT
TATGTTGATGATGTGCAGGAAGAATATGACAGCCTCAAGGATAAAGGCGTGGATTTTCATC
ATGGAACCAACCGATGTGGGCCCTTCAGTGATTGCCATTCTCGATGACACCGTAGGAAAC

CTAATTCAGATTGTTCAATTGAAGCAGAAC

>RXA00030-downstream
TAACCCCGTGAATGACAAAATC

>RXA00032-upstream
CACTTGCTGAAGACGCCCACATCGAAGACCTTGCAGATGTAAACGCAAACGCCTAACTGT
TTTTCGAGCTAAACCCATCCTTGAAAGGATCTTTTCCACC

>RXA00032
ATGAACACCCCACTCCAGCTCAACACTGAAAACCTGCAGGAAATCGCTTCGACTTCCGGA
GTGCAGATCCCAGCGTTCAACCGCGCTGACGTGCCCCGGGCATTGTCCACTTCGGTGT
GGCGGATTCCATCGCGCTCACCAAGCGATGTACCTCAATGAATTGATGAATGAGGGCAAG
GCCTTGGATTGGGGCATCATCGGCATGGGTGTCATGCCTTCCGATGTGCGCATGCGCGAT
GCCCTGGCCAGCCAAGATCACCTTTATACCCTGACCACTAAAGCTCCTGATGGAACCTCT
GATCAAAAATCATCGGATCCATCATTGACTACGTGTTTCGCTCCCGAGGACCCAGCACGG
GCCGTTGCAACCCCTCGCGCAGGACTCCATCCGCATTGTTTCCCTCACGGTGACTGAAGGC
GGATACAACATCGATCCGGCGACAGAAGATTTGACCACACCAACCCCTCGAATCGTTGCT
GACCGCGAAGCCCTGCAGGCGGGCGATACTTCCACTTTGCAGACCTTCTTTGGGTTGATC
ACTGCCGCAATTGATTTCCCGAAAAGAATCAGGATCTACGCCATTTACCATCATGAGCTGC
GATAACATCCAAGGCAACGGCGATCTGGCTAAGCGTTTCTTCCTCGCCTTCGCACATTCC
GTGTCTTCTGAGCTCGGCGAATGGGTGGAAAACAACGTGGCCTTCCCCAACTCCATGGTG
GACCGCATCACCCCTGAAACCACCGACGGCGACCGCGATGACATCAAGGAAATCGGCTAC
ATCGATGCGTGGCCAGTGGTTTCTGAAGATTTACCCCAATGGGTCTCGAGGATGCCTTC
ACCCAGGGCCGCCCCGCGTACGAGGAGGTTGGCGTGCAGGTGCTCTCCGACGTGGAGCCT
TATGAATTAATGAAGCTGCGCTGCTCAACGCCTCCCACCAGGGACTTTGCTACTTCGGC
CACTTGGCTGGCCACCACATGGTCCACGACGTCATGGCGGATACCCGCTTCCAGGATTTCT
CTCCTGGCTTACATGGAGCGCGAAGCCACCCCTACCCTCAAGGAACTTCCAGGTGTCGAT
CTAGATGCTTATCGACGCCAACTCATCGCGCGATTTCGCAACGCCGCGAGTCAAAGACACC
GTACCGCGCTGTGTGCGGAATCCTCCGACCGCATTTCAAAGTGGCTGTTGCCAGTCGTA
CGCGAAAACCTCGCAGCAGGCCGCGACGTACACTTTCTGCAGCCATCGTCGCATCCTGG
GCGCGCTACGCAGAAGGCACCGACGAGCAGGGCAACCCAATAAAGATTGTTGACCGTTTG
AGTGAGCGCGTCCAAGAAAACGCATCAGGAAATCGCACCGATATTTTGTCAATTCATCCGC
GACCGTGAATCTTCGGAGACTTGGTCGATGCTGAACCATTACCAAGGCATACTCCGAG
ACACTGTCCTCCCTTCATGACCGTGGCGCGGAAGCAACCATCGATGCACTTCTTACGCGAG
GTAACGTGC

>RXA00032-downstream
TAAATCCGTTGCGCGCTAGGGTT

>RXA00038-upstream
ACGATTGTGCTGTGCTTTGCGTTGGTGAATAGTTCTGGACCGGGTATTTTGCGGCGCACA
TGGAATCATTGAACGCCGCGCCCGGCTAAGGTGGGAGGC

>RXA00038
ATGAGTTTTGCTGAACATGCGATCATCTGGCACGTCTACCCCTGGGCGCTTTGGGTGCT
CCCATCCGGCCTGAAGCCCCCGCACCTGTACACATCGGCTCCCCAATCTAATTGGGTGG
CTGGATTATGTTGTGCGAACTAGGCTGCAACGCCCTCATGCTGGGACCGGTATTTCGAGTCC
GTCAGCCACGGCTACGACACCCCTCGATTTCTACCGCATCGACCCGCGCCTCGGCACCGAG
GAAGACATGGACGCGCTGCTGGAGGCTGCGAATCAGCGGGGCATTGGAGTGCTTTTCGAC
GGCGTCTTCAATCATGTTCCAGTTCTCTAAATATCTCGACCTGACCACCGGGGCGTCA
TTTGAAGGCCACGACATCCTGGCGGAACTCGACCACACGAATCCCGCCGTAGTGGATCTG
GTTGTCGATGTGATGAACCACTGGCTCGACCGGGAATCGCAGGCTGGCGACTCGACGCT
GTCTACGCCATCGCCCCCTGAATTTTGGGAAAAAGTCCTGCCAGAAGTGCGACGAAAACAC
CCACACGCATGGATCGTGGGGGAGATGATCCATGGAGATTACTCCGACTACGTGAAAAGC
TCCGGCATTGATTCCGTTACCGAATACGAATGTGGAAAGCCATTGGAGCAGCATCAAA
GAGCGCAATTTCTTTGAACTCGAATGGACTTTGAGTCGCCACAATGAATTCCTCGATACT
TTCGTACCGCAGACATTCAATGGTAACCATGACGTACCCGCAATTGCCACCCGAATCGGT
CAATCAATGCGATCCTGGCCGCGAGCATCCTCTTACGGTTCGGAGGAACCCCAAGCATT
TACTACGGCGATGAGCAGGGCTTTACGGGATTGAAAGAGGATAACGTTTTTCGGTGACGAT
GCCATTAGGCCACCTCTCTCTGCCGAGTTTCTCCACTGGGCACCTGGATTGAAAACATT

TATAAGGCTCTGATCGCGCTGCGCAGGCAACACCCGTGGTTGTATCAGGCGCACACCGAA
GTCCTTGAGATTGCTAATGAAGCGATGACCTATAAGTCCGTGGTCTTGGAGGTGAAGAG
CTGACAGTGCATCTTGATTTGGAAGAGGTGTCTGTTCCGATCCTTGATGGCGAGAAGGTG
CTGTTTCAGTACAGCGCT

>RXA00038-downstream
TAGTTGTCTGGTTCAAGGGTAGGG

>RXA00041-upstream
ATGAAGCAGCATCCAAGCTGGAAAACGCTGATCACTACCGTCTCATGGAGCAATTAA
AGCTGCGCTAGAAACAAAAAGGAAAGTAGTGTGTGGGGCT

>RXA00041
ATGCACACAGAACTTTCCAGTTTGCGCCCTGCGTACCATGTGACTCCTCCGCAGGGCAGG
CTCAATGATCCCAACGGAATGTACGTGATGGCGATACCTCCACGTCTACTACCAGCAC
GATCCAGGTTTCCCCTTCGCACCAAAGCGCACCGGCTGGGCTCACACCACCACGCCGTTG
ACCGGACCGCAGCGATTGCAGTGGACGCACCTGCCCCAGCGCTCTTACCCGGATGCATCC
TATGACCTGGATGGATGCTATTCCGGTGGAGCCGTATTTACTGACGGCACACTTAACTT
TTCTACACCGGCAACCTAAAAATTGACGGCAAGCGCCGCCACCCAAAACCTCGTCGAA
GTCGAGGACCCAACCTGGGCTGATGGGCGGCATTTCATCGCCGTTCCGCTAAAAATCCGCTT
ATCGACGGACCCGCCAGCGGTTTCACACCCCATACCGCGATCCCATGATCAGCCCTGAT
GGTGATGGTTGGAAAATGGTTCTTGGGGCCCCAACGCGAAAACCTCACCGGTGCAGCGGTT
CTATACCGCTCGACAGATCTTGAAAACCTGGGAATTCTCCGGTGAAATCACCTTTGACCTC
AGTGATGCACAACCTGGTTCTGCTCCTGATCTCGTTCCCGGTGGGTACATGTGGGAATGC
CCCAACCTTTTTACGCTTCGCGATGAAGAACTGGCGAAGATCTCGACGTGCTGATTTTC
TGTCCACAAGGATTGGACCGAATCCACGATGAGGTTACTCACTACGCAAGCTCTGACCAG
TGCGGATATGTCGTTCGGCAAGCTTGAAGGAACGACCTCCCGCTCTTGGCAGGATTTCAGC
GAGCTGGATTTTCGGCCATGAATTCTACGCACCGCAGGTTGCAGTAAACGGTTCTGATGCC
TGGCTCGTGGGCTGGATGGGGCTGCCCGCGCAGGATGATCACCCAACAGTTGCACGGGAA
GGATGGGTGCACTGCCTGACTGTGCCCCGCAAGCTTCATTTGCGCAACCACGCGATCTAT
CAAGAGCTTCTTCTCCAGAGGGGGAGTCAGGGGTAATCAGATCTGTATTAGGTTCTGAA
CCTGTCCGAGTAGACATCCGAGGCAATATTTCCCTCGAGTGGGATGGTGTCCGTTTGTCT
GTGGATCGTGGTGGTGATCGTCGCGTAGCTGAGGTAAAACCTGGCGAATTAGTGATCGCG
GACGATAATACAGCCATTGAGATAACTGCAGGTGATGGACAG

>RXA00042-upstream
GTGGTCTTTGACTCAAACGGCCAGTTACAACAGGTCCATTTAGACCATCAAGTAATTTAA
ATACGAGCAAACTTTCTGATAATAAAAGGAGTCCGACC

>RXA00042
ATGGACATCATCATCTGCAAAGACGAGCAAGAAGTCGGCAAAGCAGCGGCAGCCCTGATC
GCACCCTTCGCAACTAAGGGCGGAACCTTGGGGCTTGCAACTGGATCGTCACCTTTGAGC
ACCTACCAAGAGCTCATTCGCATGTATGAAGCTGGGGAAGTGTCAATCAAGAACTGCAAG
GCATTTCTTGTGGATGAATACGTGGGATTAACGCGCGACGATGAAAACAGCTACTTCAAA
ACCATTCGTAAAGAGTTCACTGACCACATCGACATCGTTGATGAAGAGGTCTACAGCCCA
GATGGTGCAAACCTGATCCATACGAAGCAGCTGCAGAGTATGAGGCAAAGATCGCTGCA
GAATCCGTTGATGTTCAAATCCTTGGCATCGGCGGAAACGGCCACATCGCTTTCAATGAG
CCATCATCTTCTCTGTCAGGACTGACAAAGGTCCAGGCGCTGCACCTAAAACCTGTGGAG
GACAACGCTCGATTCTTCAACACCATCGAAGAGGTCCCAACCCACGCCCTCACCCAGGGT
TTGGGCACTTTGTCCCGCGCGCAAAACATCGTGTGGTGGCAACTGGTGAAGGAAAAGCC
GACGCCATCCGCGGAACTGTGGAAGGCCCACTGACCGCCATGTGCCAGGTTCCATCCTG
CAGATGCACAACAATGCCACCATCATCGTTGATGAAGCAGCAGCATCCAAGCTGGAAAAC
GCTGATCACTACCGTCTCATGGAGCAATTAAAGCTGCGC

>RXA00042-downstream
TAGAAACAAAAAGGAAAGTAGTG

>RXA00043-upstream
AACAGCAGGCCTCAAGTCCGAAGATAATTAACCTAAATCCGTAGACATAAGACATCATAC
GTCCTATGCTTGCTGGAAGGAAGCAAATAACCTCAGAAAG

>RXA00043

ATGGCAGAAGTGGTGCATTATCAAGAAAATGCAGGTCAAGCAGTTAAAAAATTGAAGGA
 AGAATTGTTACCCCCACGGGGTGATTGATGGCTTTCTCCAACTCGAAAACGGGCATCATC
 ACGGAACCTCTCTGGAGAACCAGCACCTAAAAACGCAGGATTCCACCCCGAACTCCCCACG
 ATTGTTCCCAAGTTTTATTGATCTTCATAATCACGGTGGAAACGGTGGCGCGTTTCCTACG
 GGAACGCAGGACCAGGCGAGGAATGCCGCGCAGTATCACCGCGAACATGGCACGACCGTG
 ATGTTGGCAAGCATGGTTTCGGCGCCGGCTGACGCACTGGCAGCGCAGGTGGAAAACCTT
 ATTCCTTGTGTGAAGAGGGCCTGCTGTGCGGCATTACCTCGAGGGTCCTTTCATCAAC
 GCATGCCGTTGTGGTGCTCAAACCCGGATTTTTATTTTTCCCGGCAACCAACAGATCTT
 GCCCAGGTGATCCATGCGGGAAAAGGTTGGATCAAATCGATCACAGTAGCGCCGGAACT
 GACAATCTTACTGAGCTTCTCGATCTCTGCGCAGCGCACACATCATTGCTTCCTTCGGG
 CACACTGATGCAGATTTTGATACCACTACCAGCGCAATTGCCTTGGCTAAAGAGAAAAAT
 GTGACGGTCACGGCTACGCATTTGTTCAATGCGATGCCTCCGCTGCATCATAGGGATCCC
 GGCAGCGTGGGCGCTTTGCTTGTGCGGCACGTGCCGGGGACGCATATGTTGAGTTGATC
 GCCGACGGCGTGCAATTTGGCCGATGGAACGGTTCGATCTAGCTCGTTCCAACAACGCCTTT
 TTCATCACGGACGCCATGGAAGCCGCCGGAATGCCAGACGGTGAGTACATTTTGGGCGTT
 TTGAACGTCACCGTCACCGATGGCGTCGCCCGTCTGCGCGATGGCGGCGCCATCGCCGGG
 GGTACCAGCACACTAGCGAGTCAGTTCTGTCACCCACGTGCGCAGGGGTATGACGCTTATC
 GACGCGACCTCCACACCTCAACCGTCGCCGCCAAAATTCTCGACTTAGCGATCACGAA
 ATCGTTAAATCCAACCTGTAAATTTTGTGGTCTTTGACTCAAACGGCCAGTTACAACAG
 GTCCATTTAGACCATCAAGTAATT

>RXA00043-downstream

TAAATACGAGCAAACTTTCCTG

>RXA00055-upstream

TCTTATTGGTTCTTCGTTTGTGATCGATAAATACAATCGGTTTTCCTGGCTTAATAAGGCT
 GTTCCTGTCAACCTGCAATGGAAGAGGAAGTGTACCTAGC

>RXA00055

GTGGATGTCGTCGACATCGCACGGTGGCAATTCCGAATTACCACCGTCTATCACTTCATT
 TTTGTCCCACTGACCATTGGCTTAGCACCGCTGGTTCGCGATCATGCAAACGTTTTGGCAA
 GTTACCGGCAAAGAGCAC

>RXA00098-upstream

TAAATTTGTCGTGTTTCCCACTTTGAACACTCTTCGATGCGCTTGGCCACAAAAGCAAGC
 TAACCTGAAGATGTTATTTAACGACAATAAAGGAGTTTTTC

>RXA00098

ATGGCGGACATTTTCGACCACCCAGGTTTGGCAAGACCTGACCGATCATTACTCAAACCTC
 CAGGCAACCACTCTGCGTGAACTTTTCAAGGAAGAAAACCGCGCCGAGAAGTACACCTTC
 TCCGCGGCTGGCCTCCACGTCGACCTGTCAAGAATCTGCTTGACGACGCCACCCCTCACC
 AAGCTCCTTGCACTGACCGAAGAATCTGGCCTTCGCGAACGCATTGACGCGATGTTTGCC
 GGTGAACACCTCAACAACACCGAAGACCGCGCTGTCTCCACACCGCGCTGCGCCTTCCT
 GCCGAAGCTGATCTGTCACTAGATGGCCAAGATGTTGCTGCTGATGTCCACGAAGTTTTG
 GGACGCATGCGTGACTTCGCTACTGCGCTGCGCTCAGGCAACTGGTTGGGACACACCGGC
 CACACGATCAAGAAGATCGTCAACATTGGTATCGGTGGCTCTGACCTCGGACCAGCCATG
 GCTACGAAGGCTCTGCGTGATACGCGACCGCTGGTATCTCAGCAGAATTCGTCTCCAAC
 GTCGACCCAGCAGACCTCGTTTCTGTGTTGGAAGACCTCGATGCAGAATCCACATTGTTT
 GTGATCGCTTCGAAAACCTTTCACCACCCAGGAGACGCTGTCCAACGCTCGTGCAGCTCGT
 GCTTGGCTGGTAGAGAAGCTCGGTGAAGAGGCTGTGCGGAAGCACTTCGTGCGAGTGTCC
 ACCAATGCTGAAAAGGTTCGAGAGTTCCGTATCGACACGGACAACATGTTCCGGCTTCTGG
 GACTGGGTTCGGAGGTTCGTACTCCGTGGACTCCGAGTTGGTCTTTCCTCATGGCAGTG
 ATCGGCCCTCGCGACTTCATGCGTTTCTCGGTGGATTCCACGCGATGGATGAACACTTC
 CGCACCAAGTTTCGAAGAGAAGCTTCCAATCTTGATGGCTCTGCTCGGTGTCTGGTAC
 TCCGATTTCTATGGTGAGAAACCCACGCTGTCTACCTTATTCCGAGGATCTCAGCCGT
 TTTGCTGCTTACCTCCAGCAGCTGACCATGGAATCAAATGGCAAGTCAGTCCACCGCGAC
 GGCTCCCCTGTTTCCACTGGCACTGGCGAAATTTACTGGGGTGAGCCTGGCACAAATGGC
 CAGCACGCTTTCTTCCAGCTGATCCACCAGGGCACTCGCCTTGTTCCAGCTGATTTTCATT
 GGTTCGCTCGTCCAAAGCAGGATCTTCCTGCCGGTGAGCGCACCATGCATGACCTTTTG
 ATGAGCAACTTCTTCGCACAGACCAAGTTTTGGCTTTCCGTAAGAACGCTGAAGAGATC

GCTGCGGAAGGTGTCGCACCTGAGCTGGTCAACCACAAGGTCATGCCAGGTAATCGCCCA
 ACCACCACCATTTTGGCGGAGGAACCTACCCCTTCTATTCTCGGTGCGTTGATCGCTTTG
 TACGAACACATCGTGATGGTTCAGGGCGTGATTTGGGACATCAACTCCTTCGACCAATGG
 GGTGTTGAACTGGGCAAACAGCAGGCAAATGACCTCGCTCCGGCTGTCTCTGGTGAAGAG
 GATGTTGACTCGGGAGATTCTTCCACTGATTCACTGATTAAGTGGTACCGCGCAAATAGG

>RXA00098-downstream
 TAGTCGCTTGCTTATAGGGTCAG

>RXA00148-upstream
 CTTTGAGGGCAGCGCGCATGCGCCCCGATGGTTATTTGAACATGACAATTGATGCCGCGGC
 GACGCTGGCTGACCTGCTAGATGCTTTGGGAGCTTAAATC

>RXA00148
 ATGACGTCGATCCCTAATTTTTTCAGACATCCCATTGACTGCTGAGACACGTGCATCGGAG
 TCACACAACGTTGACGCCGGCAAGGTGTGGAACACTCCCGAAGGCATTGATGTCAAGCGC
 GTATTCACGCAGGCTGACCGCGACGAGGCGCAAGCGGCGGACATCCGGTGGATTCTTTG
 CCAGGTCAAAAGCCATTTATGCGCGGGCCGTACCCAACATGTACACCAATCAGCCGTGG
 ACGATTGCGCCAGTACGCAGGCTTTTCAACCGCCGCGGAATCCAATGCGTTTTATCGGAGG
 AACCTTGCTGCGGGTCAAAAAGGTTTGTGCGTTGCGTTGATCTAGCGACCCACCGCGGT
 TATGACTCGGATAATGAGCGCGTGGTCGGCGATGTGGGTATGGCCGGCGTGGCGATTGAT
 TCGATTTTGGATATGCGTCAGCTGTTTGATGGCATTGATTTGTCCAGCGTGTGCGTGTG
 ATGACCATGAATGGCGCTGTGCTGCCGATTCTTGCGTTCTATATCGTGCGCGCTGAGGAA
 CAAGGTGTGGGTCCGGAGCAGCTTGCGGGCACGATCCAGAATGACATCTTGAAAGAATTT
 ATGGTGCGCAACACCTATATTTATCCGCCGAAGCCGTCGATGCGCATCATTTCCAACATC
 TTTGAGTACACCTCCTTGAAGATGCCACGTTTTAACTCCATTTCGATTCTGCGCTATCAC
 ATCCAGGAAGCGGGAGCGACTGCCGATTTGGAGCTGGCCTACACTCTGGCGGATGGTATT
 GAATACATCCGTGCAGGTAAAGAGGTAGGCCTTGACGTGGATAAGTTCGCGCCTCGTCTG
 TCCTTCTTCTGGGGTATTTCTATGTACACCTTCATGGAGATCGCAAAGCTGCGTGCGGGA
 CGACTGCTGTGGAGCGAGTTGGTGGCAAATTCGATCCGAAAAACGCCAAGTCCAGTCG
 CTGCGCACGCACTCGCAGACCTCTGGTTGGTCGTTGACCGCGCAGGATGTGTACAACAAC
 GTCGCCCCGACCGCGATTGAGGCGATGGCTGCAACCCAGGECACACCCAGTCGCTGCAC
 ACCAATGCACTTGATGAGGCGTTGGCGCTGCCACCGATTTCTCTGCTCGTATCGCCCCGA
 AACACCCAGCTGTGTGCTGCAGCAGGAATCTGGCACGGTGGTCCAGTTGATCCATGGGCG
 GGCTCCTATTACGTGGAGTGGTTGACCAATGAGCTGGCTAACC CGCGCGCAAGCACATC
 GATGAGGTGAGGAAGCCGCGGAATGGCGCAGGCCACCGCGCAGGGAATTCCTAAGCTG
 CGCATTGAGGAATCAGCGGCACGCACCCAGGCTCGCATTGATTCCGGCCGCCAGGCGCTG
 ATCGGCGTGAATCGCTACGTGGCGGAAGAAGATGAGGAAATTGAAGTCCTCAAGGTTGAC
 AACACCAAGGTTGCGCGCAGAACAGTTGGCTAAACTCGCGCAACTGAAAGCAGAGCGCAAC
 GATGCGGAAGTCAAGGCTGCGCTGGATGCGTTGACAGCTGCTGCCCGCAACGAGCATAAA
 GAGCCAGGGGATTTGGATCAGAACCTGCTCAAACCTGCCGTCGATGCTGCGCGCGCAAAA
 GCTACCATTTGGAGAGATCTCCGATGCTTTGGAAGTTGTCTTTGGCCGCCACGAAGCAGAA
 ATCAGGACGCTGTCTGGCGTGTACAAGGATGAGGTTGGAAAGGAAGGCACAGTGAGCAAC
 GTCGAACGCGCGATCGCCCTGGCTGACGCCTTTGAGGCTGAGGAAGGCCCGCCGCCACGT
 ATCTTTTATTGCCAAGATGGGCGCAGGATGGACATGACCGTGGACAGAAGGTTGTGCGCTCT
 GCCTATGCTGACCTGGGCATGGACGTGGATGTTGGACCGCTGTTTCAAACCTCCAGCCGAA
 GCTGCCCGCGCGCCGTGGACGCCGATGTTACGTGGTGGGTATGTCTTCGCTGGCAGCA
 GGCCACCTCACCTTGCTG

>RXA00149-upstream
 TTTTCGTAGGTAAACACAGGTGAAGGCTTTACAAGCTTGTGAACTCCCTACACAAAAGCA
 ATCCAATAGCTATCCATAAGCAAGAGAAAGTAAGTCTACG

>RXA00149
 TTGACTGATCTCACAAAGACTGCGGTGCCCGAGGAACTTTCAGAGAACCTCGAAACTTGG
 TACAAGGCTGTGGCCGGTGTTCGCGCGCACACAGAAAAAGACATCGGCGACATTGCC
 GTAGATGTGTGGAAGAACTCATCGTCACTACACCGGATGGTGTGATATCAATCCGCTG
 TACACCAGAGCAGATGAGTCCAGAGGAAATTCAGTGGGTTCCCTGGTGAGTTTCCCTTC
 ACTAGGGGAACCACTGTTGATGGTGAACGCGTTGGTTGGGGTGTACTGAGACTTTCGGA
 CATGACAGCCCGAAGAATATCAACGCTGCGGTGCTGAATGCTCTGAATTCTGGCACCCACC
 ACATTGGGTTTTGAGTTCTCTGAGGAATTCACGGCAGCTGATCTTAAAGTTGCTCTCGAA

GGCGTGATCTCAACATGGCTCCGTTGCTGATTCATGCGGGTGGATCCACGTCAGAGGTT
GCAGCGGCGTTGTATACGTTGGCGGAGGAAGCCGGAACGTTTTTGTGCTGCGTTGACCTTG
GGTTCTCGTCCTTTGACGGCGCAGGTTGATGGTTTCGCACAGTGACACCATTGAAGAAGCA
GTTTCAAGTTGGCAGTGAATGCTTCCAAGCGTGCGAATGTGCGCGCTATCTTGGTGGATGGT
TCCAGTTTTTCCAACCAGGGCGCGTCGGATGCTCAAGAAATTGGTCTAAGTATCGCCGCC
GGTGTGGATTATGTCCGTCGCTTGGTCGATGCAGGCCTTTCCACGGAAGCTGCACTTAAG
CAGGTGGCGTTCCGTTTTGCGGTACCGATGAGCAGTTCGCGCAGATTTCTAAGCTGCGT
GTGGCTCGACGTCTGTGGGCCAGGGTGTGTGAGGTGCTTGGTTTTCCAGAGCTGGCCGTA
GCACCACAGCATGCGGTGACTGCACGAGCGATGTTTAGCCAGCGTGATCCGTGGGTGAAT
ATGCTGCGCAGTACTGTTGCAGCTTTTCGCTGCAGGCGTCGGTGGAGCAACCGATGTGGAG
GTTTCGTAATTTTGTATGATGCGATCCAGATGGAGTTCCTGGAGTGTGAGGAATTTTCGCT
CACCGCATCGCGCGCAATACTAATTTGTTGTTGCTAGAAGAGTCACATCTTGGTCACGTG
GTTGATCCTGCTGTTGGATCATATTTTCGTTGAGAGCTTCACCGATGATCTAGCGGAGAAG
GCGTGGGCTGTGTTTCAAGTGGCATCGAAGCTGAGGGCGGATACAGTGCAGCTTGTGCATCC
GGCACGGTGACTGCCATGCTTGATCAGACGTGGGAGCAGACTCGCGCTGATGTGGCGTCG
AGAAAGAAGAAGCTCACTGGAATTAATGAGTTCCCGAACTTGGCGGAGTCTCCGCTGCCA
GCTGATCGTCGGGTAGAACCTGCAGGTGTGCGTCGATGGGCAGCGGATTTGAAGCGCTG
CGCAATCGTTTCGATGCTTTTCTGGAAAAGAACGGCGCGAGGCCACAGATCAGATGATT
CCTCTGGGACCGTTGTCCAAGCAATATTTCGCACTGGTTTTACTTCCAACCTGTTGGCT
TCCGGTGGCATTGAAGCAATCAACCCGGGTCAACTTGTTCGCGCACTGACGCTTTTGCA
GAAGCTGCACAGGCCGCGAGGCATTGTAGTGGTGTGTGGAACGGACCAAGAGTATGCCGAA
ACGGGGGAGGGAGCCGTCGAAAAGCTCCGCGAAGCGGGCGTTGAGCGCATCTGCTTGCT
GGCGCGCCGAAGAGCTTTGAGGGCAGCGCGCATGCGCCCGATGGTTATTTGAACATGACA
ATTGATGCCGCGGCGACGCTGGCTGACCTGCTAGATGCTTTGGGAGCT

>RXA00149-downstream
TAAATCATGACGTCGATCCCTAA

>RXA00195-upstream
TCGCAGTCATCATGCAGGCATAACCTGAAACCCATCCGTTTGGATTGCCCAAATGGGTG
TAGTGGGTGCGTTTACCCAACAAGTGAAGAATGGGAGTC

>RXA00195
GTGACTAAAAAGATCCTTATTTTGGGAAGCACTGGTTCGATTGGAACCTCAGGCGCTGGAC
GTTATTGCTGATAATTCAGACAAGTTTGAGGTGGTGGGTATCGCTGCGGGCGGTTCTCAG
CCAGACCTCGTTATTTTCGAGGCGCAGCAGTTGGGGCTGGCTGCAGACAAGGTTGCGGTT
GCTGATGCACAGGCTGCCGCGTAATTTTGAAGGCTCTCGGCGGCGAGATCATCTCTGGA
ACCGATGCTGCGAAGATTCTGGTGGAAACCACAAAGGCCGACACTGTGCTTAATGCTCTG
GTTGGTTCTTTGGGGCTTGGCGCAACGCTGGCCACTCTGGAATCTGGTGGCATCTTGCC
TTGGCTAACAAAGAATCGCTGGTTGCCGGTGGTGAGTTTGTACCTCAAAGGCAAAGCTG
GGGCAGATCATTCCGTCGATTCCGAGCACTCTGCCATGGCGCAGTGTTCGCTTCGGGT
ACTCGTGATGAGGTTGCGCGGATTGTGCTGACAGCTTCGGGCGGACCTTTCAGGGCTGGA
CCAGGGAGAAGATGTGGGAGG

>RXA00195-downstream
TGAATCCCGAGCAGGCAGCAGCG

>RXA00196-upstream
CTGCCATGGCGCAGTGTTTGCCTTCGGGTACTCGTGATGAGGTTGCGCGGATTGTGCTGA
CAGCTTCGGGCGGACCTTTCAGGGCTGGACCAGGGAGAAG

>RXA00196
ATGTGGGAGGTGACTCCCGAGCAGGCAGCAGCGCACCCAACGTGGGCGATGGGGCAGATG
AACACGTTGAACTCCGCCACCCTTATTAATAAAGGCCTCGAACTCATCGAGGCGACCCTG
CTGTTTGAACGGATGCGGATCTCATTGATGTGACGGTGCATCCGCAGTCGATCATCCAC
TCCATGATCACGTTTACGGATGGTGGCACCATCGCGCAGGCGTCGCCACCATCGATGAAA
CTGCCGATCGCGTTGGCGCTTGATTGGCCACATCGGGTGCCGAAGGCTCAGCCGGCGCTG
GATTTACCGCTGCTCATACCTGGGCTTTTGAAGCCGGTGGATGATGCCGATTCCCTGCG
GTGCAGCTGGCTAGGCACGTCGCAAAGCAAAAGGCACGTACCCCGCGGTGTATAACGCC
GCCAACGAGGAGGCGGCTGAGGCGTTTTTGCAGGGGCGAATCAAGTTTCCGCAGATCGTG
GACGTGGTGGACGAGGTCTCCAAGGAGCTTCTCAGTTTGTGTTGTAGCATCACACGTC

GATGATATTTTGGCAACCGAATCTGAGGCACGCGCGGTGCGAATGCTTTGATCAACCGG
TTGGCAACCAACTTG

>RXA00196-downstream
TAAGCTAAGGAGCTTCCGCCTCG

>RXA00202-upstream
CTGGCAGCAGATTGTCATCGGTTGTGTCATCGCGCTTGCGGTGGGCTTCGATGTCATCCG
AAACAAAACCTCTAAGTAATTCCTGAAAGGAAATTTTCAC

>RXA00202
ATGTACGCTCGTAAACTTATTGCTCTGTCCGCTTCTGTCGTTTTGGCTTTCAGCTTGTCT
GCTTGCAACCGTGAATCTTCTGGCACCAGCGCAGACGGCGGTTCTGCGGATGGGTGCGATC
ACCTTGGCTCTGTCTACCCAGACCAACCCGTTCTTTGTGCAGCTTCGTGATGGTGCCCAG
GAAAAGGCTGATGAATTGGGCGTGACCCCTCAATGTTTCAAGGATGCTTCCGATGACGCTGCA
ACGCAGGCCAACCAGCTCAACAACGCTGTCAACACCGGTGCTGGCGTGGTGATTGTCAAC
CCAATGATTCTGATGCTGTGGTGCCGTGCGTGGAAGCTCTCAACCAGGCTGACATTCCT
GTTGTGGCTGTGCGACCGTTCCTCCAATGGTGGCGAGGTGGCGTCCCTCGTGGCATCTGAC
AACGTTGCTGGCGGCGCGCAGGCTGCTGCAGCCCTGGCAGAGGCGATCGGTGGCGAAGGT
GAAATCCTCATGCTGCAAGGCATTGCGGGATCCTCTGCATCACGTGATCGTGGACAGGGA
TTTGAAGAGGAGATCGCTAAGCATGAGGGCATTTCATTGTGGCTAAGCAGACCGCCAAC
TTTGACCGCGGTGAGGGCCTGGACGTGGCAACTAACCTGCTGCAGGCACACCCCAATGTG
AAGGCGATCTTCGCGGAAAACGATGAGATGGCGTTGGGCGCAATCGAAGCCCTGGGTGCT
CGTGCTGGTGAAGATGTCATCGTTGTGCGGTTTCGATGGCACCAATGATGGTCTGGCAGCG
GTTGAAGATGGACGCATGTTGGCCACCGTTGCTCAGCAGCCAGAAGAGCTGGGAGCAAAG
GCTGTGGAAGAAGCAGCTAAGCTCCTGCGCGGTGAGGACGCTGAAACAGAGGTACCAGTT
GAGGTTGTCACTGTGAAGCTCGACAACGTGCGGACTTCAAG

>RXA00202-downstream
TAGTCGGCGATGAAAAAGTCCGT

>RXA00206-upstream
TTAAATAAGATGGTCAGAGACAGTTTTTTGGCCTGTCAACCCCTGTGATTCTCTTATTTT
TGGGTGATTGTTCCGGCGCGGGTGTGTGATGGGTTTAAT

>RXA00206
ATGGAAGACATGCGAATTGCTACTCTCACGTGAGGCGGCGACTGCCCCGGACTAAACGCC
GTCATCCGAGGAATCGTCCGCACAGCCAGCAATGAATTTGGCTCCACCGTCGTTGGTTAT
CAAGACGGTTGGGAAGGACTGTTAGGCGATCGTCGCGTACAGCTGTATGACGATGAAGAT
ATTGACCGAATCCTCCTTCGAGGCGGCACCATTTTGGGCACTGGTCGCCCTCCATCCGGAC
AAGTTTAAGGCCGGAATTGATCAGATTAAGGCCAACTTAGAAGACGCCGGCATCGATGCC
CTTATCCCAATCGGTGGCGAAGGAACCCTGAAGGGTGCCAAGTGGCTGTCTGATAACGGT
ATCCCTGTTGTGCGGTGTCCCAAAGACCATTGACAATGACGTGAATGGCACTGACTTCACC
TTCGGTTTCGATACTGCTGTGGCAGTGGCTACCGACGCTGTTGACCGCCTGCACACCACC
GCTGAATCTCACAACCGTGTGATGATCGTGGAGGTCATGGGCCGCCACGTGGGTTGGATT
GCTCTGCACGCAGGTATGGCCGGCGGTGCTCACTACACCGTTATTCCAGAAGTACCTTTC
GATATTGCAGAGATCTGCAAGGCGATGGAACGTGCTTCCAGATGGGCGAGAAGTACGGC
ATTATCGTCGTTGCGGAAGGTGCGTTGCCACGCGAAGGCACCATGGAGCTTCGTGAAGGC
CACATTGACAGTTTCGGTCACAAGACCTTCACGGGAATTGGACAGCAGATCGCTGATGAG
ATCCACGTGCGCCTCGGCCACGATGTTTCGTACGACCGTTCTTGGCCACATTCAACGTGGT
GGAACCCCAACTGCTTTCGACCGTGTCTGGCCACTCGTTATGGTGTTCGTGCAGCTCGT
GCGTGCCATGAGGGAAGCTTTGACAAGGTTGTTGCTTTGAAGGGTGAGAGCATTGAGATG
ATCACCTTTGAAGAAGCAGTCGGAACCTTGAAGGAAGTTCCATTGGAACGCTGGGTTACT
GCCCAGGCAATGTTTGA

>RXA00206-downstream
TAGTTTTTCGGGCTTTTATCAAC

>RXA00224-upstream
GTGATGTCATTGGTGCATCGGGTGCTGCTGAAAAGATTGCTGAGTACCTCGCTTCAGAGA
ACCTCATCTAGCCACTATCTTCACAAAGGAGAACATTTAA

>RXA00224

ATGTCTATTTCTTATGTGCTGGTTGAGCAGCTAGATGGCCGCCAGAACCAAGTTACCCCTT
GAATTGATCACTGCTGCTCGCGCACTCGGTGACGTCGTTGCCGTTGTCGTTGGCGAGCCA
GGTGCCGGCGTAAACCTTGCTGCTGAGCTCGGCAATTGGGGTGACGCACAGGTTGTTTCC
GCTGAAATCTCTGGCGCTTCCAACCGTTTGATCTTGCTGCTGTTGATGCGCTGCACATT
TTGGCTGCGAACAACCCAGGTCCAATTGTTATCGCTGCAACTGCAAGCGGTAATGAGATC
GCTGGTCGTTTGGCTGCCCGTTTGGCTTCTGGTGTGCTCACCAGATGTCGTCGGAATCAAT
GCCGACCGCACCGCACAGCAGTCCATTTTCGGCGACACCATTCAAGGTGTCCGCTGCAGTT
GGTGGCGCTTACCGCTGTACACCCTGCGTCCAGGTGCCCTTGATGGCGTGGCCGTTCCCT
GCAACCGGTGAATTGGCAACCATTGAGATCCCAGGCGCAACCGCCAAGGATGTCACCATC
ACCTCCTTACGCCAAGCACCCAGAGCGATCGCCCTGAGCTGCCACAGGCAAAGGTCGTT
ATCGCAGGTGGACGTGGTGTGCGAAGCGAAGAAACTTCCGCAGCATCGTTGAACCACTG
GCAGATGCATTGGGCGGTGCCGTTGGCGCAACCCGCGACGCCGTTGATCTGGGCTACTAC
CCAGGCGAGTACCAGGTTGGTCAGACCGGTGTCACCGTGTCCCCAGACCTCTACATCGGC
CTCGGCATTTCCGGTGCAATTGAGCACACTTCTGGTATGCAGACCGCAAAGAAGGTTATT
GTGATCAACAACGATGAGGACGCGCCGATCTTCCAGATTGCGGACCTCGGTGTGCTTGGC
GACCTCTTTGACATCGCCCCTGCGCTCATCGAAGAGATCAACAAGCGCAAG

>RXA00224-downstream

TAGGAGTTTTGAACACTTTTTAT

>RXA00225-upstream

GTAGGCGTCGAAAAGCAATGGGCGAAGCCCGCGTAGTATGGGCGGGCAACGCTAAAAGCG
CCAAAACGCCAAAAATCGTGAATTGAAAGGTGAGTGTGG

>RXA00225

ATGTCCACAATCGTGGTTCTGGTTAAAAATGTTCCAGACACCTGGTCTAAGAGGACTCTG
GAAGCTGATTTACCCCTTGACCGTGAGGGTGTAGATCGAGTCTTGGATGAGATCAATGAG
TTTGCTCTGGAGCAGGCACTGCGCTTGCAGGAGTCCAACCCGATGCTGGTTACCGCGTT
GTTGCGCTGAGCGCCGGCCCTGCCGGTGGGGAAGAGGCGCTGCGTAAGGCGCTGTCCATG
GGTGTGATGAAGCAATCCAGCTCAGTGATGATGCCTTGGCTGGTTCTGATCTTTTGGGA
ACCGCTTGGGCGCTGAACAACGCTATCAACACCATCGCGGGTGTGCTCTCATCGTGACG
GGTTCCGGCTTCTTCCGATGGTTCCATGGGTGCGCTTCCCTGGCGTGTTAGCTGAGTACCGC
CAGGTCCCAGCGTTGACTAACTTGTCTGCGCTGAAGGTGAGGGTGATCTATTACTGGC
ACTCGCATTGATAACCACGGCACCTATGAGTTGCAGGCTGCACTTCCCTGCGGTTGTGTCG
ATTTCCGATAAGGCTGACAAGCCACGTTTCCCTAACTTCAAGGGCATCATGGCTGCTAAG
AAGGCTGAGATCAAGAAGCTTTCCTTGGCTGAAATCGGCGTGGCTCCAGAGCAGGTTGGT
CTGTCTCACGCGGCAACTGCTGTTACTGCTGCAGCTGATCGTCTGAGCGCTCCCAAGGT
GATGTCATTGGTGCATCGGGTGCTGCTGAAAAGATTGCTGAGTACCTCGCTTCAGAGAAC
CTCATC

>RXA00225-downstream

TAGCCACTATCTTCACAAAGGAG

>RXA00235-upstream

CGAAACAAGATTCTGTGCAACAATTGGGTGTAGACGTGATTGAAGACATTTGATCACGTGA
ATAATTCTAGTTAGCTCCCAAGTTGGCATAGGAGGCCACA

>RXA00235

GTGGCTGAAATCATGCACGTATTCGCTCGCGAAATTCTCGACTCCCGCGGTAACCCAACC
GTCGAGGCAGAGGTTTTCTGGATGACGGTTCCACGGTGTGCGAGGTGTTCCATCCGGC
GCATCCACGGCGTCCACGAGGCTCATGAGCTGCGTGACGGTGGCGATCGCTACCTGGGC
AAGGGCGTTTTGAAGGCAGTTGAAAACGTCAACGAAGAAATCGGCGACGAGCTCGCTGGC
CTAGAGGCTGACGATCAGCGCCTCATCGACGAAGCAATGATCAAGCTTGATGGCACCGCC
AACAAGTCCCGCTGGGTGCAAACGCAATCCTTGGTGTTCATGGCTGTTGCAAAGGCT
GCTGCTGATTCCGCGAGGCTCCCACTGTTCCGCTACATCGGTGGACCAAACGCACACGTT
CTTCCAGTTCCAATGATGAACATCATACCGGTGGCGCTCACGCTGACTCCGGTGTTGAC
GTTTCAAGGAATTCATGATCGCTCCAATCGGTGCAGAGACCTTCTCTGAGGCTCTCCGCAAC
GGCGCGGAGGTCTACCACGCACTGAAGTCCGTGATCAAGGAAAAGGGCTGTCCACCGGA
CTTGGCGATGAGGGCGGCTTCGCTCCTTCCGTGCGCTCCACCGGTGAGGCTCTTGACCTT

ATCGTTGAGGCAATCGAGAAGGCTGGCTTACCCCCAGGCAAGGACATCGCTCTTGCTCTG
GACGTTGCTTCTCTGAGTTCTTCAAGGACGGCACCTACCACTTCGAAGGTGGCCAGCAC
TCCGCAGCTGAGATGGCAAACGTTTACGCTGAGCTCGTTGACGCGTACCCAATCGTCTCC
ATCGAGGACCCACTGCAGGAAGATGACTGGGAGGGTTACACCAACCTCACCGCAACCATC
GGCGACAAGGTTGAGATCGTTGGCGACGACTTCTTCGTACCAACCCTGAGCGCCTGAAG
GAGGGCATCGCTAAGAAGGCTGCCAACTCCATCCTGGTTAAGGTGAACCAGATCGGTACC
CTCACCGAGACCTTCGACGCTGTTCGACATGGCTCACCGCGCAGGCTACACCTCCATGATG
TCCCACCGTTCCGGTGAGACCGAGGACACCACCATTGCTGACCTCGCAGTTGCACTCAAC
TGTGGCCAGATCAAGACTGGTGCTCCAGCACGTTCCGACCGTGTGCAAAGTACAACCAG
CTTCTCCGATCGAGCGCTGCTTGGCGACGCCGGCGTCTACGCAGGTGCGAGCGCATTC
CCACGCTTTCAGGGC

>RXA00235-downstream
TAAATAAAAGCGCTTTTCGACGC

>RXA00246-upstream
TTGCAAGGATTGTAATTTAAGGCACATCTATGTCGGTGTGAAATTACATGTGCCAGAAGA
GCAATTTGCCAAGTAATCCAAGCGAGAAGGAGTGAGTTTT

>RXA00246
ATGACCACTGCTGCACCCCAAGAATTTACCGCTGCTGTTGTTGAAAAATTCGGTCATGAC
GTGACCGTGAAGGATATTGACCTTCCAAAGCCAGGGCCACACCAGGCATTGGTGAAGGTA
CTCACCTCCGGCATCTGCCACACCGACCTCCACGCCTTGGAGGGCGATTGGCCAGTAAAG
CCGGAACCACCATTCGTACCAGGACACGAAGGTGTAGGTGAAGTTGTTGAGCTCGGACCA
GGTGAACACGATGTGAAGGTCGGCGATATTGTGGCAATGCGTGGCTCTGGTCAGCGTGT
GGCACCTGCGAATACTGCATCACCGGCAGGGAACTCAGTGCAACGAAGCTGAGTATGGT
GGCTACACCCAAAATGGATCCTTCGGCCAGTACATGCTGGTGGATACCCGTTACGCCGCT
CGCATCCAGACGGCGTGGACTACCTCGAAGCAGCACCAATTCTGTGTGCAGGCGTGACT
GTCTACAAGGCACTCAAAGTCTCTGAAACCCGCCGGGCAATTCATGGTGATCTCCGGT
GTCGGCGGACTTGGCCACATCGCAGTCCAATACGCAGCGGCGATGGGCATGCGTGTCAAT
GCGGTAGATATTGCCGATGACAAGCTGGAACCTTGCCCGTAAGCACGGTGCGGAATTTACC
GTGAATGCGCGTAATGAAGATTCAGGCGAAGCTGTACAGAAGTACACCAACGGTGGCGCA
CACGGCGTGCTTGTGACTGCAGTTACAGAGGCAGCATTCGGCCAGGCACTGGATATGGCT
CGACGTGCAGGAACAATGTGTTCAACGGTCTGCCACCGGGAGAGTTCCAGCATCCGTG
TTCAACATCGTATTCAAGGGCCTGACCATCCGTGGATCCCTCGTGGGAACCCGCCAAGAC
TTGGCCGAAGCGCTCGATTCTTTGACGCGGACTAATCAAGCCAACCGTGAGTGATGC
TCCCTCGATGAGGTCAATGGTGTGCTTGACCGCATGCGAAACGGCAAGATCGATGGTGT
GTGGCGATTTCGTTTC

>RXA00246-downstream
TAACGGATTGTGTTGAAACTGCT

>RXA00251-upstream
AACCAGCGTTTTTCAGCGAGATACTGGACATATCAACTAAAAATCCCTGAATAAAACATCTA
ACATGGGTTTTATACAGAAAATTCATACGAAAGGTTGATC

>RXA00251
ATGAAGAAGAAGATTGCGGTGCTTACCGGAGCGACCGGAGGCATGGGAATTGAGATCGTC
AAAGACCTCTCCCGCGACCACATTGTCTACGCCTTGGGCCGAAATCCAGAGCATCTGGCA
GCTCTCGCAGAGATCGAGGGAGTAGAGCCTATCGAGTCCGATATCGTGAAGGAAGTGTTG
GAAGAGGGAGGCGTCGACAAGCTAAAAACCTCGACCACGTGGATACGCTGGTGCACGCC
GCGGCGGTGGCGGTGACACGACCATCGAAGCCGGCAGTGTGGCCGAATGGCACGCACAC
CTTGATCTCAACGTCAATTGTCCCGGCCGAGTTGAGTCGCCAACTCTTGCCCGCCCTCCGC
GCGGCGGAGCGCTCATCTACATCAACTCCGGCGCGGCAACGACCGACACACCCCGGC
AACACCATCTACGCCGCCAGCAAACACGCCCTCCGCGGACTCGCCGACGCCTTCCGCAAA
GAAGAAGCCAACAACGGCATCCGCGTCAGCACTGTGAGCCCCGGCCCCACCAACACCCCC
ATGCTGCAAGGCCTCATGGACTCACAAGGCACCAACTTCCGCCAGAGATCTACATCGAA
CCAAAAGAAATCGCCAACGCAATCAGATTCTGTGATTGACGCTGGCGAAACCACCCAGATC
ACCAACGTGGACGTACGACCACGTATCGAACTGGCGGACCGGAAAGAT

>RXA00251-downstream

TAGTTCTGGGGGGCTTCCTGGGC

>RXA00268-upstream

TACGCCACCCACGGCAAGGCCATGATTCCGCTGTACATCTTCTACTCGATGTTTCGGGATT
CCAGCGCACCGGTGACTCCATTTGGGCAGCAGCCGATCAG

>RXA00268

ATGGCACGTGGCTTCTTTTTGGGCGCTACCGCAGGTTCGCACCACTTGACCGGTGAAGGC
CTCCAGCACATGGATGGACACTCCCCTGTTTTGGCTTCCACCAACGAGGGTGTCGAGACC
TACGACCCATCCTTTGCGTACGAGATCGCACACCTGGTTACCGTGCGATCGACCGCATG
TACGGCCCAGGCAAGGGTGAAGATGTTATCTACTACATCACCATCTACAACGAGCCAACC
CCACAGCCAGCTGAGCCAGAAGGACTGGACGTAGAAGGCCTGCACAAGGGCATCTACCTC
TACTCCCGCGGTGAAGGCACCGGCCATGAGGCAACATCTTGGCTTCCGGTGTGGTATG
CAGTGGGCTCTCAAGGCTGCATCCATCCTTGAGGCTGACTACGGAGTTTCGTGCCAACATT
TACTCCGCTACTTCTTGGGTAACTTGGCTCGCGATGGCGCTGCTCGTAACAAGGCACAG
CTGCGCAACCCAGGTGCAGATGCTGGCGAGGCATTTCGTAACCAACCCAGCTGAAGCAGACC
TCCGGCCCATAACGTTGCAGTGTCTGACTTCTCCACTGATCTGCCAAACCAGATCCGTGAA
TGGGTCCCAGGCGACTACACCGTTCTCGGTGCAGATGGCTTCGGTTTCTCTGATACCCGC
CCAGCTGCTCGTCGCTTCTTCAACATCGACGCTGAGTCCATTGTTGTTGCAGTGTGAAC
TCCCTGGCACGCGAAGGCAAGATCGACGCTCTCCGTTGCTGCTCAGGCTGCTGAGAAGTTC
AAGTTGGATGATCCTACGAGTGTTTCCGTAGATCCAAACGCTCCTGAGGAA

>RXA00268-downstream

TAAATCACCTCAAGGGACAGATA

>RXA00288-upstream

GGCGTGCTAAAAAGCACGTCAAATACAGAATCGGCAGATTACATCGCTGAGCAGAGAAA
ACACGGGCATGAAACGTACCCAAGGGCTAACATCGGGGGC

>RXA00288

ATGAGCGCGCAAATGGATACCCCTGATCCCACTATGTCTGCTGTTGCAATGTTAGATTCC
ATCCCTTCTGATCAACCAGATTTCCCTGATCGATGTAGAAGTAGATCGACCAACTCCCGGA
CCACATGATCTGCTAGTCCACATTGAGGCGGTCTCAATTAACCCCTGTTGATACCAAGGTA
CGCATGCGGGCCGGGAAGCAAAAGCATCCTAAAATTTAGGTTTGTATGCTGCAGGTGAG
GTGGTGGCTGTTGGATCGCAGGTACGCTCTTCAATGTTGGTGACAAAGTGTCTACGCA
GGATCCAATCAGCGTCCAGGAAGTAACGCAGAGTACCAGGTGGTGGATGAACGGCTGGTG
GGTCACGCACCAAAAGCTTGGGGGCACACGACGCGCTGCTCTCCCACTTGTGCGGCTC
ACTGCATGGGAGTCACTTTTTGACCGATTGGGAGTAACTCAGTCAACTACTGGAACACTG
TTGGTCTTGGGCGGTTCAAGAGGTGTGCCTTCAGCTCTTATTCAACTTGCTCGAGCTCTC
ACTGGTCTGAAAGTAGTGGCAACAGCTTCTCGCCCTGAATCACAAGAATGGGTGACAAAG
CTCGGTGCTCATGAGGTGATTGATCACTCCAAGGATTTGAGTGAGCAAACTCCGACGTG
GATTTTGTTTTTCAGCTCGTGGACTACTGGGCGTGAAGTAGAGCTCGCCACGTTGATGAAA
CCCCAGTCCCACCTAGTGCTCATCGATGATCCAGTGGATCCCAATTTGGGCGCTTTTAAG
CAAAAAGCGATCGCTTTGCATGGGAGTTTCATGTTTACCCGCGCTATGTTCAACACTCCT
GATATGGGTGAACAAGGGGAAAATTCTGAATAAGATCGCCGACATGGTTGATCGGGGTCAG
TTTGAGTCCGTGACAGCAACGGTGCTGGATGGGCTCAACGCTGCAAACATCATGGAGGGG
CACCGGCTCGTTGAGCAGGGTAAAACCTCAGGAAAAATTGTTGTGAGGGTA

>RXA00288-downstream

TAAAGAGGACTTGAAAAATGCAC

>RXA00290-upstream

AGCTACAGATTTAGCTAGTGTTTTTGTTCCAGAACCCTAAATGAGGTTCTACCCTTAACA
GAGCTTCCCGCAAAAACACCGATTAACAAGGCTAAATGAT

>RXA00290

ATGACCATCGACCTGCAGCGTTCCACCCAAAACCTCACCCATGAGGAAATCTTCGAGGCA
CACGAGGGCGGAAAGCTCTCCATTAGTTCCACTCGTCCGCTCCGCGACATGCGCGATCTT
TCCCTTGCTTACACCCCTGGTGTGCTCAGGTTTGTGAAGCAATCAAGGAAGATCCAGAG
GTTGCGCGCACCCACACGGGCATTGGAAACACCGTCGCGGTTATTTCCGACGGCACCGCT
GTTCTTGGCCTTGGCGATATCGGACCTCAGGCCTCCCTTCCCGTCATGGAGGGCAAGGCT

CAGCTGTTTAGCTCTTTCGCTGGCCTGAAGGCTATCCCTATCGTTTTGGACGTTACGAT
 GTTGACGCTTTGGTTGAGACCATCGCAGCCATCGCGCCTTCTTTCGGTGCTATCAACTTG
 GAGGACATCTCCGCTCCTCGTTGCTTCGAGGTGGAGCGCCGCTCATCGAGCGTCTCGAT
 ATTCCAGTTATGCACGATGACCAGCACGGCACCGCTGTGGTTATCCTCGCTGCGCTGCGC
 AACTCCCTGAAGCTGCTGGATCGCAAGATCGAAGACCTCAAGATTGTTATTTCCGGCGCA
 GCGCAGCGGGCGTTGACAGTGTAGATATGCTGACCAACGCTGGAGCAACCGACATCGTG
 GTTCTTGATTCCCGAGGCATCATCCACGACAGCCGTGAGGATCTTCCCCAGTTAAGGCT
 GCTCTTGACAGAGAAGACCAACCCTCGTGGCATCAGCGGTGGCATCAATGAGGCTTTTACC
 GCGCGCAAGATTGTTGATGGCGTGTCCGGCGCAACATCGGCGAGGACGCTCTCAAATC
 ATGGCCCCGAGCCAATCCTGTTTACCCTGGCGAACCCCAACCCAGAGATCGATCCTGAG
 CTGTCTCAGAAGTACGGCGCCATCGTCGCGACCGGGCCGGTCTTGACCTGCCTAACCAGA
 TCA

>RXA00293-upstream

AGAGATTGTTGATTCGGCACCAACTTTACCCACGAGGGTAGAAATGAAGCATTACAGGATG
 ACAAACCCAACTCACACCAACAACCTATCCTGGAGCCC

>RXA00293

ATGAAAATCTTTGTTGGTTTTGGCGATTATCCACTCACCACCAAGGCCCTTAAGGAGGCA
 GCGCAGAAATAGTGGACTCCCTCGAAAAAGCCGAGGGGTTGTCTTCACTCAAACACCA
 GGCACAGAATTTCCCTACTTCCCGACGGAGTGAGGTGGGTGCAATTTCCCAATGCGGGG
 CTCAACGCATATTTACAGCTGGGCAGATTGATGACAAACGCCGGTGGTCAAATGCATCA
 GGGGTGTATGGCCAACAGGTAGCCGAAGCAGCAATGGCTCTTTTGCTGGGACTGATTCAT
 ATGCACCCACCATGGTGCGTGCCGATAGTTGGGCACCAAGCACTCAAATAGATCAGCAG
 ACCAGATGGCTTGATGGTGCAACAGTTGCCATTGTGGGAGCTGGTGAATCGGTAACAT
 CTGGCAGCCATGTTGAAACCTTTTGGCGCAAAGTCTTTAGCAGTAAGCAGGACCGGTACA
 CCCACCAAGATTGTTGATGCAACGGAACCTATATCCAACCTGCACCAAGTACTTGCCGAC
 GCCGACCATGTGGTGTTGTGCGTACCGCTTACCGCAGACACCTATCATCTGATCGGAAAA
 GCAGAGCTTAAAGCAATGCAGTCCACTGCAATTTTGTATCAACGTGGCTCGCGGAGAAGTA
 GTAGATACAGAAGCATTAGTTGACGCCTTAGATGCCCAAGAAATATCCGGGGCAGGCTTA
 GATGTCACCGATCCTGAACCATTGCCGGACGATCATCCACTGTGGGGGCGCAGCAATGTG
 ATCATTACCCCGCACGTAGCCAACACGTTGACCTCGATGGATCGCATGCTTGCCCCAGTG
 GTGGCAGAAAACCTACCGACGGTTTCTCGCTGGAGAAAAGATGCTGACCGAGGTGGACATC
 CACAAAGGTTAC

>RXA00293-downstream

TAGAGCAGTGCGCTTTGAATATAG

>RXA00296

ACCATCAAATTCAACAGACTCGACCCAGAAGTATTTAGCCAGCATTCTCGCGCGAAGCTG
 CGCACGGATATGACAACCCGTGCAGCATATTCTTCTGATGCAGGAATTTTTAGACGCGTC
 CCTGCAGCTGTAGCTGAACCAGAAAATGTGGAACAAATTCGTGATGCCATTGCTGTTGCG
 GTGGCAGGAGGGTGGTCTGTTGTTGGGCGCGGTGGAGGAAGCTCGGTTGCTGGAAATGCG
 ATCGGTGAAGGTTTGATCATCGATACGTCACGCTATTTCAACCGCATTTTAGATATTGAT
 CCAGTTGCACAAACTGCAGTTGTGGAACCCGGTGTGGTGTGTGATGCCTTGCGCGATGCA
 GCCGAGAATTCCGATTAACTTACGGCCCGGATCCTTCCACGCATTCCCGGTGCACGATC
 GGTGGCATGGTTGCCAACAAATGCGTGTGGTTACACTCGGTTGCATTCCGTACAGCTGCG
 GAAAATCTCGTGGATGTCACGCTCATGCTCAGCGATGGCCGAGAAGTCACTGTGACAAAA
 GATGGCTGCGATGATGCTGAGATCAATCAGAAGCTCACCGACTTAGCGTCCAAGAATCAG
 GACCTTATTAGTAAAGAACTGGGTGCTTTCCCTCGCCAAGTGTCGGGCTACGGTTTGAT
 TATCTTGCCACGACATGGCCAAAGCAATGGCGGGCACCGAGGGAACCATTTGGAATCATT
 ACTCGGTTGACGGTGAAGTTGGTTCCAACACCCAAAGTGAAAGCGCTTGCTGTCTGGCT
 TTCCGACAGGTTTTTGACGCCGCCGAGCAGCCGCAAAATTGCGACTGCCTGGGGTAGCA
 ACCATTGAAGGCATGGGCGGAGATCTCCTCGCTGCGCTGCGCAGTAAACAGGGACAATCA
 GAAGCTGGGCAGAATCTTCCAGGAAACCGCATCGGCATTGAAGCCGGCGGATGGTTGTAC
 TGCGAGACAGGAAGTGACACCCTGCAGGCCGCGGTACAAGCCGCCGAGGAAGTCGCAACC
 GCCGTTGACACCATTTGATTACGTGGTCTGTCTGAGCCTTCTGAAATGCGGGAATTGTGG
 CGCATCCGTGAATCCTCGGCGGGCATTTGTACGCGCTTAGCTGATGGTGGGGAAGCGTGG
 CCGAATTGGGAAGACTCGGCGGTGCCTCCAGAGAATTTAGCTGATTATCTCCGCGATCTT
 TATGCGCTGATGGATAAGTTCGATTACCAGGGTATTCCATTTGGACACTTTGGAGAAGGC
 TGCGTCCACGTTGCGATCAGTTTTGATTTCTCTACCAAGGAAGGCCTGAAGAAATTCGAG

GCGTTCATGAATGAAGCCTCCACCTTGGTGGCGTCTTATGGTGGCAGCCTCTCGGGCGAG
CATGGAGACGGTCGCGCCCGCTCATCCTTCCTTGACCGCATGTATTCAGCAGAAATGCGT
GCACTCTTCGAAGAATTCAAGCTGATTTTCGATCCCCAGCGCATCTTCAATCCGGGAGTG
TTGGTCTGGGCAGATCCTGTCATGCAAGGACTTCGCATGGACCCGGGCCAGCGCGCCCTC
GACATCACGCCCCGTACACAAATTCTCTAAAGACAAAGGTTCCATGATCAACGCGGTGAAT
CGCTGCGTGGGTGTATCCGCATGCCGCTCAGAATCCGACGCGATGTGCCCGTCTTCCAA
ATCACCGGCGACGAAGTACATTCCACCAGAGGCCGCGCCCGCTTGCTCTCTGAGATGTTT
CGCGGTGAATCCATCGCCGACGGCTACCGCAGCGAAGAAGTCAATGAAGCCCTTGACCTG
TGCTTTTCTGCAAAGCATGCGCATCGGAATGTCCAGTCAACGTCGACATGTCCACCTAC
AAAGCCGAATTCTTGACAAACACTACGCCGGCCGACTTCGCCCCATGGCCCATTACGTC
ATGGGCTGGCTGCCGCTTCTGGGACACGTTGCCCATAAAATACCGCTTCTTCCTACGCTT
ATCGACGCCACCATGCAGTCAGCACTACCGCCCCAGTGGTGGCAAGGTCGGCGGGCTC
GCTGATCGCCCGTTGATTTCTTCGCCCACCGCTCGCTGCGCAAGTACAAGCCGAAGAAA
AACTCAGGTGAAACGGTGGTGTGTGGCCCGATTCTTCAACACCAACCTCGACACCGGA
CCAGCTCACGCGAGCATCAAACTCTTGAAGCCCTCGGTTACAACGTGGTCATCCCAGAT
GGCTTCGTCTGCTGTGGACTCACCTGGCATTCACCGGCCAATTGAGCATGACAAAGAAA
GTCCTAGAACAAACGGCGAAAGTGATGAAACCCTACCTGGACCAAGGTCTAACAGTCGTT
GGTTTGGAACTTCGTGCACCGTCATGCTTCAAGATGAGGCAACAGAACTCTCCGATAAC
CCTGATCTGGCAGCGCTTGCGAGCACTGACCAAAACATTGCTGAGGTCTCGCACCAAAG
ATCACCGAGCTAGTCGAGTCTGGAAGCCTCCAGCTAACAGAATCAACTGCGCTTACCCAG
GTGCACTGCCACGAGCGTTGCTAGGCGACCCACAACAATCGGCACTCGTTCTTGAAGCT
TTGGGTGTAAAAGATGAACAAATTGCCACTGGTTGTTGCGGGCTTGCCGAAACTGGGGC
TTTGA AAAAGACCACGCTGAAATGTCCTTCGCACTTGGTGAACGAGAGCTGTTCCCAAG
GTCAGAAAAGCAGAAGGACATGTGATTGCTGACGGTTTCTCCTGCCGCACCCAGATCGAA
CAAGGCACCGGAAAAACAAGCAACGCACCTTGAGAGGTGGTCTTAAGCATCTTGAGCAA
AACAAATGGCACAA

>RXA00296-downstream
TAACGATCATGCAACAGGTGCTC

>RXA00309-upstream
AGCGCATGATCGATGCCTGCGAGTCCGCAGGGGTCCAACCTTGGCGTGCTCTTCCAGCGCC
GCTTCTGGCCCGCGGCTCAAAAAATGAAAAGGAGCCGTC

>RXA00309
ATGGGCCAATGCACGGTAGCGCTTTACCGAGAGCATTCCTATTACACAGCAACCCCATGG
CGAGGAACCTGGGCAGCCGATGGCGGTGGAGTGCTCATGACTCAAGCCATCCACTACATC
GATCTTTTGTACTGGCTGTTGGGCGAACCCGTGGAAGTTTTCGGCTACACCAACTCCTTC
AAACACGGCGACAACATCGAAGTCGAAGACAGCGCCGTTGCCACTGTGCGTTTTGAATCG
GGCGGTTGGCCACAATTTAGCCACCACCGCCGAGAGCCAGCACTCGGCGCACAAAGTG
CAGGTGATGGGA

>RXA00310-upstream
TTGCGGGATTTCATCATCGGCGCAATCGCACTGTCTGCCGAGTTATTTTGACCACCAAGG
AAACCGCCTTACCAAGCTTGAAGATCTAGGGAAGAAATA

>RXA00310
ATGTCTGACAAGATCTGGAAAGTCGGCATCATCGGTTGCGGTGCAATCAGCCGAAACCAT
ATCGAAGCAGTTTCAGGCAATCCCCGGCGCAGAAGTCAGCGCAGTCTGTGATGTGGATGGT
GCGAAAGCATCGGAAACCGCAGCGAAATATGGAATTTCTCCAGTTTCACGTCTGTGAT
GAGATCCTCGCTCCGGGGTGGACATTGTGCGAGTCTGCACCCACATCCAACCCACGAA
ACAGTGGTCTCGCCGCTGCTGCCGCCGAGTGCACGTGCTTTGTGAGAAGCCAATCGCC
ATCGAACTCGATTCCGCACAGCGCATGATCGATGCTGCGAGTCCGCAGGGGTCCAACCTT
GGCGTGCTCTTCCAGCGCGCTTCTGGCCCGCGGCTCAAAAAATGAAAAGGAGCCGTCA
TGGGCCAATGCACGG

>RXA00310-downstream
TAGCGCTTTACCGAGAGCATTCC

>RXA00317-upstream
CAACGGTTACATCACTACGCATTACCTCCCCTGGTTGGTACCGCATGTTTCGTTTCCCAA.

GTCAAGCCAAGCCTTGAAAAATTCTGGCAAGGTTAATGGT

>RXA00317

GTGACTACGCCTTCTAAGAAAACCTCTGCTCTTTGATCTCGACGGAACCCTCGTCGATTCT
TTCCCCGGTATCCGCACTTCATTCCCTTCACACCCTGCACGAAAAGAACTGGGAAATCCCC
TCTGAGGAACGCATCTCGCAAGTTCCAGGACCTCCCATGGAATGGACGTTCCAGGATTTG
GGCATGACTCCAGAGCAGGCACAAGACGCTCTGCAGACCTACCTTGAGCATTACGGCCAG
GTGGGTTGGGATCTTCCGAAGCATTCCCCGGCATGCGAGATTTGCTGATCCCCTTGATA
TACGAAGGTTTTCGTCTGTGCACCGCCACCTTTCAAGGG

>RXA00327-upstream

AACGATTTTCGCGTCGCAACCGTGATCACCGGTGCTTTCCGGCATCGTGTCGTCGCGG
CTAGGGGGCCAGGCGCGGGATGATTGGGTTTGTACGCCC

>RXA00327

ATGATTTCAGGCGGCGTTGTGGATCGTGCTCTTTTTATTTCGCTGATCGCCTGTCCAATCCG
CTGGTTTTTGTACGCGCCATCATGTTTCGCGATTTCCCTTTAGCTCCCCCGTGGCGAACTTC
GGTTTCGATACGATCTGCGAAAACTCGACCGCGCGTCATGGTCGCCGGCACCGGCATG
GCCAACATGAGCGCCTACATTTGCGCGATGCTGGCCACACAAATCATCGGATTTTTACTC
GACTGGAACGCCGACGGCCACGCCTACACCTGGTCTGAATTTCCAGGTGGCGTGGCTTGGT
CTGGGCGCGGTGTGGCTGGCAGGCATGATCGGGCTTGAGTCTGCCTCCTGCTGCAGCGT
CGAAAAAATATTGCTTTTCGACGC

>RXA00327-downstream

TAAAACCCGACCGTAACCGCTAG

>RXA00328-upstream

GTCACGGGATTTGTTGTAGCCCGACTCAAGGGTGGACCGGGCCGAGATTACTCGCCCAG
ATTAGGTCTACCAAGGACTTTTAAAGATCGGGTAAACCT

>RXA00328

GTGGGCGTTGAAAGGGGCAAGGTCTCTGCCAAGGCACTAGTTGTCTGGTTGACGGCAATG
TGCGTGATACATCGTGGCCATTGCTGGTCTGAACATCATTTGGTGTGCCGGAGTGATGCG
ATCGATCGCTTTGATATCGACGCCTCCCGGTTGGCCGTGTTCACTTCTGTTCAAGTTGGA
GTCTATGTTCTCGCGCAGATTCCCATGGGCATGCTGGTGGACAGGTTTCGACGCCCGGAAA
CTCTTGCTGGCTGGCGCTTTAATTTTGGCAGCTGGCCAGCTCATTTTGGGTTTCACTGAT
TCTTATATGATCGCCATTTTGGCCGAGTGCTCATCAGTGTTGGCGATTCTTCTGCATTT
TTGTCCGTGATGCGACTGTTGCCCACTGGTTCCCGATGTCTTGGACACCTGTGTTGCAG
CAGCTACGGGCGCTTTTGGCTTTGTGGGGCAGTTTCTCCGCGGTGCCGTTTTTGCACA
TACTCAACACCT

>RXA00328-downstream

TAGGGTGGACAATTCCTTTCGCA

>RXA00329-upstream

TGTGAAGAACAATGATCAACGGCCTTCGCCAAGACCGCATCCCAGAGAGAAAGTAACTAC
CCGCGCCCTCATAGTTTGGGCAGCAGCCTGTCTTGTGTAT

>RXA00329

ATGGCAGCCATTACCAGCCGCACCAGCTTTGGTGTGGCTGGAGTGGAGGCCATTGATCGT
TTTCAGGTAGACGCCACACGCATTGCAGTATTCACTTCTGTTCAAGTTGGTGTGTACGCG
TTTGCTCAGATTCGGATGGGCATTTTGATCGATAAGTTTGGTCCTCGGAAGCTCCTTGCC
ATTGGTGCTTTGGTGTATGGGTATCGGCCAGCTCATTTTGGGCTTACGGATAGCTATTCC
ATCTCGATTGATTCGCCCGCTGTTTATCGGCGCCGGCATGCATCGATCTTCCTTTTCGGTT
ATGCGCATCCTGCCGTTTTGGTTCCCACTGAAGCACACCCCTATTTTCACGCAGTTAACT
ACCTGCCTTGGCCAGTTGGGCCAGTTCTTTTCTGCGGTGCCTTTCATGGCGTTGTTGGGT
GCGCAGGGTTGGCCTGTGGCGTTTGTACGCTTGGTTCGGTGGCACTCATTGCGATC
GCAGCGCTGGTGGCCGTTTCGGGATACTCCAGATCCTCAGCCAAAACCTGTCGAATCAGCT
CAGGAAGCAGATAAACCAGCCTGCGCGCAGTTTGAAGTTGATTGTCCGCAATCCGATT
ACGTGGCAGGGTTTCTTCATTCACTACGTATTGATGGTGTGGCAGACCGTGTTCTCCATG
ATGTGGGGCGTCCCCTGATGACTTTGGGCATGGGACTGTCTGCAACGACGGCTGGTTTG

GTGTTGAGCATCAACACGCTGTGCATGGTGGTATCGGCGCCAATCATCGGAATAATTTCC
GCACGCCTTGGGTATCGCCGTGACGTGGTCGCCATTGCGCTGTCGTTTGTTCATCCGCA
GTATGGCTGGTGTCTTGGCCTCCGATGCACCTCGTGGTTTGATGGCTATCATCTTGGTC
AACATCGTCATGGGTCTGACTACTGCGGCTTCTGGTTATGGCTTTGACACCATTTCGTGAG
CGCCTAGATCGCAAGATTTTGGCTGCGGGCACGGGACTGGCAAACATGGGTGGATTCTTG
TCATCGATGGTTGCAGCGCAGGTTATGGGGTTTCTTCTTGATCACAGCGCGCATGGTAGC
ACCTATACTTGGGTGGACTTCCGTTTTGGTTTTCTTGCGATTCTTGTCACATGGGCCGTC
GGAGTCACGGGATTTGTTGTAGCCCGACTCAAGGTGGACCGGGCCGAGATTACTCGCC
CAGATTAGGTCTACCAAGGACTTT

>RXA00329-downstream
TAAAGATCGGGTAAACCTGTGG

>RXA00340-upstream
CGGTATCTCCGACATCCGCAACACCCCCAAAGATGAGGTTCCACAGTGCCCAGAATGTGG
CTCTTACCTCATCACTGACATCTCTTAGAAAGACCACCCA

>RXA00340
GTGAAATTAGTCATCGAGGCCGACGGCGGCTCCCGCGGAAACCCCGCGTCGCCGGCTCC
GGCACCGTGGTGTACTCCGACAACAAAGCAGAAGTTCTCAAAGAAATCGCCTATGTTGTC
GGAACAAAAGCCACCAACAACGTCGCCGAATACCGCGGACTACTCGAAGGCCTCAAAGCA
GCCCCGCGAGCTCGGCGCTACCTCCGTGGATGTCTACATGGACTCCAACTTGTGTTGAA
CAAATGTCCGGCCGGTGGAAAATCAAACACCCCGACATGAAAGTTCTAGCGATCGAAGCC
AAGGAGATTGCTTCCGAAATCGGGTCCGTTTTCTTATACGTGGATTCCGCGTGAGAAAAAC
AAACGAGCTGACGCATTGTCCAACGTGGCGATGGATGCTGCAGCGGCAGGTAAGCCGGTA
GGTGTGTAGGGGATTCTGCTTCTGTATCTTCTGCTTCTTCCGTTGCGGGCTCAGAGAAA
GAAGACCTCAACTGCACCGAAACCAAAACCCACCAACTGGAACGGCGCAACCACAGATCCC
ACTCGTTTTCTTGTGCTTCGCCACGGCCAACTGCTATGTCACTGGCACGCCTTTACTCC
GGTAGGTCCAACCCAGAGCTGTCTGAACTTGGTGAAAAACAAGCAGCAGCGGCAGCACGA
CGACTCGCTCAAACCGGTGGCATCGACGCTATTGTGAGTTCTCCGCTCACCCGCACGATG
CAAACCGCAGAAGCAGCAGCGGCCGCACTGGGAATGAAAGTACGTGTTATCGATGATCTC
ATCGAAACTGACTTTGGACTGTGGGATGGAATATCATTTTCAGAAGCCCAACGAACAAGAT
CCAGAAGTGCACACCAAGTGGCTCACTGACTCATCTGTAGCCCCACCCGGTGGTGAGTCC
CTGCAGACGGTTAATCGACGTGTGAAAAGGCTCGTGAAAGCCTCCAACGCGAATACGGT
GCAGCGAATGTTTTGGTGGTCAGCCACGTCAACCCCAATCAAAGCCATCATGAGGCAAGCA
TTGGACGCAGGCCCATCCTTCTTTCAGAAGGCACACCTTGACTTGGCGTCGCTGTCGATC
GCAGAGTTTTACGAAGACGGCCCAACCTGCGTAAGACTGTTCAACGACACCTCACACCTG
GAAGCG

>RXA00340-downstream
TGACGACAGTCTGACGGAAGCTC

>RXA00379-upstream
CGTGCTGGATAAACAGCACCGCCCGCAGCAGTGTTCTTGCGCGAAGTCACCTCCAAAGA
TGTGTTGGATGTTGCGTTGCCATTGGTAGATGAGGCCTAA

>RXA00379
ATGTCTGAGATTGTGGTAGCCCAAAGCATCGGCCAGCAGTTTGCTGACGTGCGAGCTTCC
GGGCCACTGTTCTTGGCATCCTTGCCGACGCTCGCAGGTCTGGTGTCTTTTGCCAGC
CCGTGTGTTGTGCCGTTGGTGCCAGGATATATTTCTACCTCGCCGGCGTGGTGGTGGG
GAAGTGGAATACAGCGCTCATGCCACC

>RXA00381-upstream
AAACCTGGTTTGTGCTTCCGCTCTCACGGACGATGATTTCTCCAAGATCGAGCAGGCAC
TCAAGCCCCCGCACGTGCAGCAGCAGAAGCGAAGGCATC

>RXA00381
ATGACGCAAACCATTTGTCCATCTAGTTCGCCACGGCGAAGTCCACAACCCAGAGAAAATC
CTGTACGGACGCATGCCCCGATACAGGTTGTCTTCCCGTGGACGCAGCCAAAGCCGCCGC
ACTGCAGCTTCTTTTGAAGGCCACGATGTCACCTACATTGCGGCCCTCCCCATTGCAGCGT
GTGCAGGAAACCTCCGAACCGTTTCATCAAGGTCACAGGCCTAGAACTGATCACCGACGAG

GATCTTCTGGAAGCAGGCAACCGTTTTCGAAGGCCTGCGCACCAAAGGTTGGCGTTCCCAG
 TTGTGGAACCCCGTGCGTTGGCCTTTGATGTACAACCCACGCTTCCCAGCTGGGGCGAA
 CACTACACCGACATTTTGAAAGAATGATGGCGGCTGTGGAACGAGCTCGGGTGGCAGCG
 GAAGGACACGAAGCAATCCTGGTGACCCACCAGTTGCCGATCGTGTGCGTGCAACGCCAC
 GCCCGCGGACAAAGCCTGTCCCATAAACCCAGCGACCAGGCAATGCGACCTCGCCTCAGTG
 ACATCCTTGGTGTTCGAAGACGATCAAATTGTGGCGTGCAATTACAACGAACCAGCTCAG
 GAGATT

>RXA00381-downstream
 TGATCACTCGTGCGTTTGACCAA

>RXA00385
 CTTGGCGGAGTGTTGCTCTCGGTTGGACCCCTTGTTTGGGCCCCACCCTGGCTGCGATC
 ATCTCCATTTCTGCAGGTACTGAAGGCATGACCGCTGCGCGTGCGGTGATCTTAATTGTG
 GGTTACTGCCTCGGACTGGGGCTGCCGTTCTGCTGATCGCGTTGGGCTCCAGCAAGGCA
 CTCACCGGAGTCGAGTGGTTGCGCAAGCATTCGCCGACCCCTGCAAATTATCGGCGGTGTG
 TTTTGTATCTTGGTCGGAGTAGCGTTGCTCTCTGGCTCATGGGCAATTTTATCAACTGG
 GTCGCTCAGTGGACCGTTGAATACGGCGCAACACTGCTC

>RXA00385-downstream
 TAGAAAAAGACTTTTAGTAGGAA

>RXA00386-upstream
 GAAGAGTACTTCGACCACGACGACTAACACCGCAATTTAAAGGCTTTTCAAGCCTGCCCC
 ACATCGAAGCAGTTTTCACAAAGAATAAGGTTGGAAAATT

>RXA00386
 ATGTTGCGCGTCAACCAAACGTATGCGCAGTTCTCAGACACTGCCTTCGTATCGGCATAC
 ATCATCTACGTTCTGGCACTCATCCTCTCCCTCGTCTACTACGTAAAACAACAAGGCATT
 ATCGACGCCCCGCGGAGCAAACCCGCGTCAGCGAACTCGTTGGTGCAGGCGGCAGCGCT
 GATGTTGATACTGACCTGCCTGATGACATCGCCGACGGTGTCTCGCCGACGAAGACCTT
 GCAAACGCGAAGAAACCGCACGCAAACTAGCCAACATGACCCAATCTCTCATGTGGCTC
 GCGTCATGGTGACCTCGTATCCGTCGTGATGCGCGCGCTGTCTGCCAGCCGATTCCCC
 TTCGGCAACCTGTATGAATACATCCTCATGGTCACCCCTCTTCGCCATGATCGGAGCCGTA
 CTCATCCTGCAGCGCCCAATTCGCGTGATGGCCATGGATCCTACCCCAATGGCT
 GGCATTGGTTTTCTACGGTGGCACCCAGC

>RXA00388
 ACCCTGGATAACCTGGCATAACAAGACCGCGATCTGGACTGTCCCAATCTTCGGCCTGGGC
 ATCATCTTGGGTGCCATCTGGGCAGAAGCAGCCTGGGGTCGTTTCTGGGGATGGGATCCT
 AAGGAAACAGTCTCCTTCATCACCTGGGTTCTCTACGCTGGTTACCTCCACGCACGTGCA
 ACTGCTGGTTGGCGCAACACCAACGCTGCATGGATCAACATCCTGGCGCTGGTCACGATG
 ATTTTAAATCTGTTCTTCATCAACATGGTCGTATCTGGTCTGCACTCTTACGCCGGAAGT
 AAC

>RXA00388-downstream
 TAAGCACTTTTGGTTGGCGGGGT

>RXA00406
 GACCCAGTTGAGGTTGCTGCGGACACTCAGGAAATGATCATCACCCGCATCATCGACAAT
 GCATCGGTGCAGGCAGCTTCCGTGTTGCGTCGACAGTTAGCTCTGCCCCGTGCGATGGCA
 CAGGTACAGGCCAGTTACCGATGGTCGGGGTGATCTGTTTTCGGTCTGCCAGGACGTTAT
 GCCGCGGAATGGGCTGCGCTTGCTAACGGCACTGCGGTGCGTGAGCTTGATTTCCATGAC
 ACGTTTCTCGCTGCGGAATACTCCCAACCCAGGAGATAACATTCTCCGATTTTGGCTGCA
 GCACAGCAGGCTGGAAAAGGTGGCAAGGATCTGATCCGTGGCATCGCTACTGGGTATGAG
 ATTCAGGTTAACTTGGTGCGTGGAATGTGCCTGCATGAGCACAAGATTGATCACGTTGCT
 CATCTTGGACCATCAGCGGCTGCTGGTATCGGAACCTTGCTAGACCTAGATGTGGACACC
 ATCTACCAGGCAATTGGTCAGGCATTGCACACCACCACGGCGACGAGGCAGTCCCGTAAA
 GGTGCGATTTCTTCATGGAAGGCATTTGCTCCTGCGTTTTCGGGCAAGATGTCCATCGAG
 GCAGTAGATCGCGCAATGCGTGGCGAGGGCGCACCGTCACCAATCTGGGAAGGCGAAGAC
 GGCGTAATCGCGTGGCTGCTGTCCGGTCTTGATCACATCTACACCATTCCTTTGCCTGCA

GAAGGTGAAGCCAAACGAGCAATCTTGGATACCTACACCAAGGAACACTCGGCGGAATAC
CAGTCACAGGCACCGATCGACTTGGCGCGCAGCATGGGGGAGAAGCTGGCAGCACAGGGC
TTGGACCTGCGTGATGTGGACTCCATCGTTTTGCACACCTCCCACCACACTCACTACGTG
ATCGGCACCGGATCTAATGATCCACAGAAGTTCGATCCAGATGCATCGCGAGAAACCCTT
GATCACTCCATCATG

>RXA00427-upstream

TGCTGATGATCCGAGCGGTTGGCATTTCGCTGCGTGGGGCTTGGAGTGGCGTCGGAT
GCGCAGTGAGTTGATTGATCCAGCCAACCCGAGGATGAT

>RXA00427

TTGCTGCCGGGCATCGCCTCCTTGTTCAATGGTGCCCTGATCAGCGCTTATGCAATGGAG
CGCATTGGCGTGCCGACTATCGACTGTTTATTTCGCGGCGATGAGGTGGAGTATCACCGC
CGTTTGGTGCGTTCCGGTTTGCCGTTTGGTACGTGTTTGACCACGGCGTATTTGCACCCG
GATGGTTCTGATGAGTTCAAGCCGATTCTGGGTGGGCGGATGCATACGCAGTATCCGGAT
AATGATTTCAAGAGGTTTTTCACCTACCGCAACCGTGGCTACCTGATGAGCCAGCCGGGA
ATGCGCAAGCTTCTCCCTCAGGAATATGCGCGCTTTGCGTGGTTCTTCCTGGTTTCAGAAA
CGGGATGTGAAGGATTCCGGGAGTGGCTGCGCCTGCACAACTGGGCCGCGACGAGAAA
TTCAATAGGCCC

>RXA00427-downstream

TAGATCAGTTTTAGTAGTTCCTC

>RXA00483-upstream

AGACCCAAGAGTAAATCCCAGGATTGCTTATACTTGCGCTCATGGATAATCAACTTCG
TCCCACCTTTCATTATCAAGCTCAAACCCGACCCGGCGA

>RXA00483

GTGCTGGTACCCGGTGCGACAGGCTACATTGGCGGCAGGTTGATTACTGAGTTACTTGCT
GCCGGTTTTCCAAGTTCGGGCCACCTCGAGGAAAAAACAAGTCTTCAGCGCTTTGACTGC
TACGAGGACGTGAGGCGAGTGAAGCGGATCTGACTGACGCGACTGAGTTAGATACGTTA
TTTAAGGATGTAGACGTTGTTTACTATCTAGTGCAATCCATGGGAGGTAAGAATGTTGAT
TTTGAAGAGCAAGAGCAACGCACTGCTGAAAATGTAATTCAAGCTGCTGATCAAGCCGGG
ATAAAACAGATTGTCTACCTTTCCGGCTTACACCCGCGTAATCGAAAAATAGAAGAACTA
TCTAAGCACATGCGCTCACGGGAAAAGGTCGCCAGATTTTGTGCGCAGGCCAGACACCA
GCTTTAATTTTAAGGGCTGCCACAATTATTGGTTCCGGCTCTGCATCATTTGAAATAATC
CGTCATCTCACGGAGCGTTTGCTAGAATGATAGCGCCTCAGTGGATTACTAATCAGATT
GAGCCTTTAGCAATACGGGATGTTTTGCATTACCTAATCTCGGCGGCTGATTTAAAGGAT
CCAGTCAACCGCTCCTGCGATATTGGGTGTGGAAAGTCGTATGAATTTGCGGATCTATTG
CGTATCTATGCCGATGTTCCGGGACTGAAACGTCATGTAAATTCCGTACCTCTCAATTTG
CCCATGGACAAGCTATCCGGTCTTTGGATTAGTCTAGTGACACCTGTTCCATTTCAATTG
TCTTTCCCTTTAGCTCAATCAATGGCTGAGGATGCCGTCCTGAAGAGCACAGCATTTAA
GATATTATTTTCAGATCCACCCGATGGTTTTATTGAGTATCGGGAAGCAGTGGAGCTGGCA
TTAGCTGCAGAATTTGATCGTGGAGTTCCAACGTCATGGGATCGAAGCTGGACTGTACAA
CAACCGTGGGCTGGCCAGCCTACCGATCCAGAGTGGGCGGGCAAAGCTGTATATGAAGAC
GTCCGCACAGAAGATACTGATCTCCGAGCAGCGCAGGTCTGGCCGATCATTGAAGGTTTG
GGTGGCGTGAACGGCTGGTATTCTGCACCACTGCTATGGCGATTGCGGGGTATCGCTGAC
AGACTCATCGGCGGTCAGGTTTGGGCGGACGGCGGGATCCCCGTCATTTGAAACTTGGG
GATCGCATTGATTGGTGGCGGTTACTGAGATCGATCCACCACATAGATTAGTGCTCACC
GCAGAGATGAAAGTAGATGGTGGCGCTTGGCTGATCCTGGAAGTTGCGGACAAGGAAAAT
GGCGGATGTACTTATACCCAGCGCGCAATATTTGAGCCGAAGGGTTTGGCCGGTTATCTC
TATTGGTGGGTTGTTTACCGTTCCATGCGATTATTTTCTTATATGCGTTTCAATATT
TTAAAGCTGCGCGTAAACTCACT

>RXA00483-downstream

TAATCGCAGAGTAGGCGTCTAAA

>RXA00511

GAGCTGCGCAAGAACACCCTCGTGGGCACTGTCATGAGCAACCTGGGATTGAAGATTGCT
ATGGATGAAGCCGGAATTACACTGCGTACCACCAAGGTAGGAGACCGCTACGTGCTGGAA
GACCTCAATGCAGGTGGATTACGCTGGGCGGCGAGCAATCTGGCCACATTGTTCTTCCA

GATCATGGCACCCTGGCGATGGAACCTTTGACTGGTCTTTCCATCATGGCGCGCATGGCT
GAAACCGGAAAGTCCTTGGGCGAGTTGGCACAAGCTATGACGGTGCTGCCACAGGTTCTG
ATCAATGTGCCAGTTTCGGATAAGTCCACCATCGTGAGCCACCAAGCGTTGTGGCTGCG
ATCGCGGAAGCAGAAGCTGAGTTGGGCGCCACCGGTGCGGTTCTTCTCGTGCTTCTGGC
ACCGAAGAGCTTTTCCGCGTGATGGTTGAGGCTGGAGACAAGGAACAAGCTCGTCGTATC
GCGGGACGTCTTGCTGCAGTGGTTGCAGAAGTC

>RXA00511-downstream
TAATTCACCTTCAGTCACAGCGCA

>RXA00512-upstream
TACAACGAGTACAACGCTTTCGACCAGCAAGTATTCACCTATTCCGCTGACAGCTACAAG
CCCATCTTCTAACCCGCCTATATATAAGGAGTGAATCACC

>RXA00512
ATGTCCAGCGCCACAACCACTGATGTTTCGCAAAGGGCTCTACGGAGTCATCGCCGATTAC
ACGGCCGTTTCCAAAGTCATGCCAGAGACCAATTCACTGACCTACCGTGGCTACGCGGTG
GAAGATTTGGTGGAAAACTGCAGCTTCGAGGAGGTGTTTTACCTCCTGTGGCAGGCGAG
CTGCCCACCTGCGCAACAACCTTGGCGAGTTCAATGAGCGTGGCCGTTCTTACCGCTCCCTG
GATGCCGGTTTGATCTCCCTGATCCACTCTTTGCCCAAAGAAGCCCAACCGATGGATGTT
ATGCGCACCGCGGTGTCTACATGGGCACCAAGGATTCCGAGTATTTACCACCGATTCT
GAGCACATCCGCAAAGTTGGCCACACCTTGTGGCGCAGCTTCGATGGTGCTAGCCATG
GATATTTCGTGCGCCGAAGGGCCTCGATATCATCGCCCCTGACTCCAGCAAGTCAGTCGCC
GAAAACCTGCTGTCTATGGTGTGTTGGTACTGGCCCCGAATCACCTGCATCCAACCCAGCT
GACGTCCGCGATTTTGAGAAATCACTGATCCTCTACGCCGAGCACTCCTTCAACGCCTCC
ACCTTCAACCGCCCGCGTG

>RXA00514
CACGAGCGTTTCTATGCTCCTGAGCGAGCCCTCCGCCGAGAGACCATCGAGCTGTGGAAC
AAGATTTCCACGGTGGAGGATCCTGAATGGACCAGGCGTTACCACTCCGTTGATCCTGCA
GAAAAGGCCTTCGGCGCACGCGCAGTGATCACCTTCAAGGATGGAACCGTCGTGGAAGAT
GAACTGGCTGTGGCGAATGCGCATCCTCTGGGAGCACGGCCTTTCGCTAGGGAGCAGTAC
ATTTCAGAAATTCCGCACCTTGGCTGAAGGTGTTGTGTCCGAAAAGGAACAGGATCGCTTC
TTGGATGCGGCACAGCGTACGCACGAGCTTGAGGATCTTTCAGAACTCAACATTGAATTG
GATGCCGATATTTTGCCAAGGCTCCTGTGATTCCGGAAGGACTGTTT

>RXA00514-downstream
TGATGGCGGGTTTGTTTTCTCT

>RXA00517-upstream
GGTCTTAGAACCAGCGTGCACTGATGGCGATTAAAGGGGGTTGCGCCTATACCTATTGCT
GGTATACATTTCCGTATACCTAAACCGAATTGAGGGATTC

>RXA00517
ATGCCAGAAGTCACTGTCAACGCCCAACAACCTCACTGTTCTCTGCACAGACATCCTCACC
AAAACCTGGAGTACCTGCAGCAGACGCCCATCTTGTGCGGTGATAGTTTGGTGCAGGCTGAT
CTTTGGGGTCAACCCCTCCCACGGTGTGCTTCGACTGCCTTGGTATGTGCGCAGACTCCAC
AGTGGCGCGATGACTACACATGCACACGTGGAGGTTCTCAATGATTTGGGTGCCGTGTTG
GCGTTGGATGGACACAATGGAATCGGCCAAGTTTTAGCTGATCATGCTCGTAAAGAAGCA
GTGACTAGGGCAATGATGTTTCGGCATCGGTGCGGTGTCGGTGCGCAACTCCAATCATTTT
GGAACCTGCCATGTACTACACCCGAAAGCGGCAGCGCAAGGATGTGTTTCCATTCTCACC
ACCAATGCATCTCCGGCGATGGCGCCCTGGGGTGGCAGAGAAAAACGGATCGGTACCAAC
CCATGGTCTATTGCGGCACCTTTTGGAGAAACGGCTACGGTAGTCGATATAGCCAATACT
GCGGTTGCGCGCGGAAAGATCTACCACGCACGACAGACAAACATGCCCATTCCTGAGACT
TGGGCGATGACGAGTGAGGGCGCACCCACCACGGATCCTGCTGAGGCAATCAACGGTGTC
GTCCTTCCCATGGCTGGTGCACAAAGGTTATGCGATTAGCTTCATGATGGATGTGCTTTCT
GGAGTTCTCACTGGTTCCCAGCACAGCACCAAGGTACATGGTCCGTATGATCCCACTCCC
CCAGGTGGAGCTGGCCACTTGTTCATCGCGTTGGATGTTGCAGCGTTTCGCGATCCACAA
GATTTTCGATGACGCACTCAGCGATCTGGTTGGGGAAAGTTAAATCCACTCCGAAAGCACAA
AACACCGAGGAGATTTTCTACCCCGGTGAATCGGAAGACCGTGCGCATCGGAAAACTCT
GCGCACGGTATTTTCATTGCCTGAAAAACGTGGATGGAACCTGCAAGAACTGGCAATCGAG

AACCATGTTGTAACCTACCGT

>RXA00517-downstream
TGATCTGCGCGTTAAACCTGGCC

>RXA00518
GTCCTTCCGGTATTAGCTGCCCCGCCACGACGGCGAAAAGTGGGTGCCATGTATGAAAAC
ATGCGCGACGCCATGGACGCCCCGACCGGCATCAAGCCGAATCTCGATTTCCCTGCTGGC
CCTGCCTACCACCTGCTCGGTTTCCCGGTGATTTCTTACCCCGCTGTTTCGTATCGCC
CGCGTCGCCGGCTGGACGGCCACATCGTGGAGCAGTACGAAAACAACCTCGCTCATCCGC
CCTACTGTCCGAGTACAACGGCGAGGAGCAGCGCGAGGTGCGCCCCATTGAAAAGCGC

>RXA00518-downstream
TAAAAGATTTTCGCTTTTCGACG

>RXA00521
CTCGACGCTGCTGATGAAGTTCAGATCAAGCACATCGCAGCTGACGGCACCGAGACCATC
CTCAAGGACAGCCTCAAGCTTCTTGAAGGCGAAGTCTAGACGGAACCGTTCTGTCCGCA
AAGGCACTGGACGCATTCCTTCTCGAGCAGGTGCTCGCGCAAAGGCAGAAGGTATCCTC
TTCTCCGCACACCTGAAGGCCACCATGATGAAGGTCTCCGACCCAATCATCTTCGGCCAC
GTTGTGCGCGCTTACTTCGCAGACGTTTTTCGCACAGTACGGTGAGCAGCTGCTCGCAGCT
GGCCTCAACGGCGAAAACGGCCTCGCTGCAATCCTCTCCGGCTTGGAGTCCCTGGACAAC
GGCGAAGAAATCAAGGCTGCATTCGAGAAGGGCTTGAAGACGGCCCAGACCTGGCCATG
GTTAACTCCGCTCGCGGCATCACCAACCTGCATGTCCCTTCCGATGTCATCGTGGACGCT
TCCATGCCAGCAATGATTCGTACCTCCGGCCACATGTGGAACAAAGACGACCAGGAGCAG
GACACCCTGGCAATCATCCCAGACTCCTCCTACGCTGGCGTCTACCAGACCGTTATCGAA
GACTGCCGCAAGAACGGCGCATTCGATCCAACCACCATGGGTACCGTCCCTAACGTTGGT
CTGATGGCTCAGAAGGCTGAAGAGTACGGCTCCCATGACAAGACCTTCCGCATCGAAGCA
GACGGTGTGGTTCAGGTTGTTTCTCCAACGGCGACGTTCTCATCGAGCACGACGTTGAG
GCAAATGACATCTGGCGTGCATGCCAGGTCAAGGATGCCCAATCCAGGATTGGGTAAAG
CTTGCTGTCAACCGCTCCCGTCTCTCCGGAATGCCTGCAGTGTCTGGTTGGATCCAGAG
CGCGCACACGACCGCAACCTGGCTTCCCTCGTTGAGAAGTACCTGGCTGACCACGACACC
GAGGGCCTGGACATCCAGATCCTCTACCCTGTTGAGGCAACCCAGCTCTCCATCGACCGC
ATCCGCGCTGGCGAGGACACCATCTCTGTCAACCGGTAAC

>RXA00606-upstream
ATGGATAACCAGACTGGCACGCGGATATTGCTCGCCTCGGTTTCTTGGTCAAGAAAAAT
GCCGTTACGTTTGTGTCTGTATTAATAGGTGCGTTGTGCG

>RXA00606
ATGGCATCGGTTCCGCCGTTGCTCGGCTTCGTGTCCAAAGAAGGCATGATCACAGCGTTC
ATGGACGCCCCCATCGGCAACTCCTATGTTGTATTACTGCTGGTCGGCGCAGCAATCGGC
GCGGTCTTAACCTTACATACTCCGCGAAACTCGTGCTCGGCGCATTCGTTCGACGGCCCA
CGCGACATGTACACGTCAAGGAAGCCCCCGTCTCCCTCTGGCTTCCGGCCGCCCTGCCT
GGACTTATGTCTCTGCCACTAGTCCCTAGTACTTTTCGCTTTTCGACGCCCCCGTCTCCGCC
GCAGCCACCTCCGCCGCGGGGAAGCGGCGCACATGCACCTGGCATTGTGGCACGGCATC
AACACCCCACTGTTGATTTCCCTTGGGTGTGCTGGTGGCCGGAATCCTTGGTGTGCTGTTT
CGCAAAGAGCTGTGAAAAATCGCCGAGACCAGCCCTTTCCCCATCGCCACAGGCAACGAC
ATCCTATCGATGCTGGTTTACCGAGCCAACCTTGCTGGGTAAATCTTCGGTCGCATGGCT
GATTCGATGAGCCACGCGAGGCACTTGGTCAGCCTCATCGTGCTCTGGGCGCTGGCT
GCTTTTGGCCACCATTCACCCCTCGGTTTCAGCTTGACCAAAGCAACCGGGAATTGATCGT
TGGATCGACCTCATTCGCTTGCCATCATCGCGCTATCTGTCTTCGGCCTGCTCACCACC
CGAAACCGCCTCAGCGCAGCCGTGCTTGTGGGTACCGTTGGTGTGGGTGTTTCCCTCCAG
ATGCTACTTCTGGGCGCTCCCGATGTTGCACTTACCCAGTTCCTGGTAGAAGGCCCTCGTC
GTGGTAATCATGATGTTGTCCGGCACCAGCCTGCCAAGCTTCAAGCGCATCAAGCCC
AGCAGAAGGCGCAGCACCGTTCTTGTGCGCGTCTTGCTGCCTTCGCCGCATTTCATGGCG
GTGTGGGGATTGCTTGGCCGTACGAACGTTCTGAGCTGGCCATGTGGTACCTCAACCAA
GGTCCAGAGATCACCTCTGGCGCCAACGTGGTGAACACCATCCTCGTGAATTCCGTGCA
CTGGATACGTTGGGCGAGCTCTCCGTGCTTGGCATGGCAGCTGTCGTCATCGGTGCGATG
GTGGCTTCCATGCCTCGTCATCCGTTTGCCAAGGGCACCCACCCCTCGCCCCCTTGGCCAA
TCACAGTTGAACTCCATTCCGCTGCGCATGCTGCTTAAGGTGCTGGTTCCAGCGCTATGC

TTCTTGAGCTTCATGGTGTTTCATGCGTGGACACAATGATCCGGGAGGCGGTTTCATCGCA
GCCCTAATTGCCGGTGGCGCGCTGATGCTCCTGTACCTGTCCAAGGCCAAAGATGGCCGC
ATTTTCCGCCCCGAATGTTCTTTTCATTCTCACTGGTGGGGCATCTTGATGGCAGTGTTTC
TCGGGCGTACTGGGACTCACCCACGGTTCTTTCTGTACGCCATCCACTTCAACTTCGTA
GGCCAGCACTGGACCACCTCGATGATCTTCGACCTCGGCGTGTACCTGGCCGTGTTGGGC
ATGGTGTCCATGGCAATCAACGGCCCTGGGCGGATACCTGCGCCAGGTACCGACAATGCA
GATCTGGACTACGCCCCCGGAAGTGGCCCACTGCCAGCAACGCCAACGGTTGAACCCGAA
CCAGAAGGCGATGAAGACTGGCCCGAAGCCATCAACCCCGCAGGCGATAACAAAGAGGAG
GCAAACCGA

>RXA00606-downstream
TGATTCTCGCACTGACAGTCGCG

>RXA00608-upstream
CGACGACACCCGGTCCATCGAACCAGATGACGATCAATCGCCTTTGACTACTAGCGCTCG
TTCAGTCACCAACCCAACAGATCAGGAGGATAAAGCTTAA

>RXA00608
ATGGCCATGGATGTTCTCCTTCTATTTTCGTTGCAGTTCCCTTGCTGCCTCTGCCATT
GCGGTGCTTCTGCCGTGGCGTCTCATCCGCGATATTTTGACATCATCGTGCCTTTTCGCG
GGTATTTTTGCTGGCATCTGGTTGTTTGACACACACCGCTGAACACGGCCCGATTGCTCAC
AACGTGGGCCCTTTATGTCGGTGGCGTGGCAATCCCTTTGCTGCCGATACGTTTCAGCGCC
ATCATGTTGATCACCACCTCGATCGTTGCGGTGGCTGCCAACTGGTTTGCCACCATCGTC
GGTGAACCCGCGCGCGTTTCTATCCAGCGCTCACATTGATGCTGATCACGGGCGTCAAC
GGTGTCTGCTGACTGCCGATCTGTTCAACTTCTTTGTGTTTCATCGAAGTGATGCTGCTG
CCTTCTCTATGTTTTGATCGCCATGACCGGAACGTGGGCGCGCTAGCCTCTGGACGAATC
TTCGTACTAGTCAATCTCTCTGCCTCCACATTGCTGGTTGCAGGTGTGGGAATCGTCTAC
GGTGTATAGGCTCAGTCAACATCGCAGCTCTGCAAGATGTCTAGAGGGCAACCCCTG
GTTGCCAGCGCAATGGGCATCGTGGTTATTGCCATCGCGGTTAAAGCCGGTGTATTCCCA
GTGCACACATGGCTGCCACGCACCTATCTGGTACATCAGCAGCTGTGATGGGGTTGTTT
TCCGGTTTGCACACCAAAGTCGCGGTATACATGCTCTATCGCATT

>RXA00635
GGTACGGATTTCCCTTATTCTGATTTCTTCTTAAAGACAACGTTGCCAGGTGGATATC
AACGGTGCACGATTTGGTTCGACGTACCACGGTGAAGTATCCGGTGACCGGTGATGTTGCT
GCAACAATCGAAAATATTTTGCTCATGTGAAGGAAAAAACAGATCGTTCCTTCTTGAT
CGGATGCTCAAGGCACACGAGCGTAAGTTGAGCTCGGTGGTAGAGACGTACACACATAAC
GTCGAGAAGCATGTGCCTATTCAACCTGAATACGTTGCCTCTATTTTGAACGAGCTGGCG
GATAAGGATGCGGTGTTTACTGTGGATACCGGCATGTGCAATGTGTGGCATGCGAGGTAC
ATCGAGAATCCGGAGGGAACGCGCGACTTTGTGGGTTTATTCCGCCACGGCACGATGGCT
AATGCGTTGCCTCATGCGATTGGTGCGCAAAGTGTGATCGAAACCGCCAGGTGATCGCG
ATGTGTGGCGATGGTGGTTTGGGCATGCTGCTGGGTGAGCTTCTGACCGTTAAGCTGCAC
CAACTTCCGCTGAAGGCTGTGGTGTTTAACAACAGTTCTTTGGGCATGGTGAAGTTGGAG
ATGCTCGTGGAGGGACAGCCAGAATTTGGTACTGACCATGAGGAAGTGAATTTCCGAGAG
ATTGCGGCGGCTGCGGGTATCAAATCGGTACGCATCACCAGATCCGAAGAAAGTTCCGCGAG
CAGCTAGCTGAGGCATTGGCATATCCTGGACCTGTACTGATCGATATCGTCACGGATCCT
AATGCGCTGTGATCCCAACCATCACGTGGGAACAGGTGATGGGATTGAGCAAGGCG
GCCACCCGAACCGTCTTTGGTGGAGGAGTAGGAGCGATGATCGATCTGGCCCGTTTGAAC
ATAAGGAATATTCTACTCCA

>RXA00635-downstream
TGATGATTGATACACCTGCTGTT

>RXA00679-upstream
GGACCGTGAGGATTGCTCCCGTTTGTCTTGCCAAATCAAGGTACCGGAAGGCATGGATCT
TTCGTTGACCACGCCAGAAACGCAAGTGTGAGGTTGAATC

>RXA00679
ATGAATACTTCAGCTGAAACTGGAATCTTGATCATCGGTGCAAACCAATCGGGTGTGCAG
CTGGCGATTTCCCTGCGGGCCACGGTTTACCGAATCGATCACGCTTCTAGGCGAGGAG
GATCACCGCCCCCTACCAGCGTCCCGCCTTGTTCAAGGAGTTCTCCAGGACAAGATCGAC

AAAGAGCGTCTGATTTTCCGTTCCAATGAGTATTGGGAAGAAAAATAATATTGCGCTGGTC
 AAGGGCGTGCGCATCGAACGCATTGAAAAGAACGACGACGGATCAGGGGTGCGCTACGGC
 GCCGGACAAGAATTCGCTTTTCGACGTCTCGCTCTAGCGGTTGGTGCCCGCCCTCGCCAC
 CTCGACCTCCCGGGCGCCACCTTGGAGGGTGTACCTACCTGCGCAACGCGGACGACGCC
 TTGGCGCTCAAAGCGATGATTGGTTCTGTACCGATGCCGTTGTAGTCGGTGGTGGGTTTC
 ATCGGATTGGAAGCTGCGTGTTTCGCTTCATGACCTCGGCAAAAATGTCACCGTCCTGGAA
 TATGGTCCGCGTCTGATTGGCCGAGCGGTGGGTGAAGAAACCGCAGCATTCTTCCTCGAA
 CAACACCGTTCCCGTGCGTAAATATCGTGCTTGATGCCCCGATGAAACAGTTTGTGGGC
 AAGGATGGAAAGCTCAGCGGCATTGAGCTAGAAGATGGCACAGTAATTCCTGCCCAACTA
 GTCATTGTGGGCATCGGTGTCAATCCGAACACAGAAGTTGCCGCTGTTCTGGGCTTAGAC
 ATCAACAACGGCATCGTGGTGGATAAACATGCCGTCGCGTCAGATGGCACCACCATTGCG
 ATTGGCGATGTGCGCAACATTCCCAATCCAATCCCTGGTTCCCCCGCTGATGAACGCATC
 CGACTAGAAAGCGTCAATAACGCCATCGAGCACGCAAGATCGCTGCATACTCACTCGTC
 GGCCAGCCCGAAGCCTACGCCGGAATCCCCTGGTTCTGGTCCAACCAAGGCGATCTCAAA
 CTACAAATTGCAGGACTTACCCTTGGTTATGACAGCACAGTAATCCGACAGGATCCCGAG
 AAAAGAAGTTCTCTGTCTTTATTACCGTGGCGACAACATCATCGCCGCCGATTGTGTC
 AACGCTCCACTGGATTTTCATGGCTGTGCGCAGTGCCTTTCCAGGAACCAAAATATCCCC
 GCCGACCTTGTCTGCAGATATTTGCGAGCCGCTGAAAAAACTAGCCGTTGACCTGGAGGTT
 ACCCGA

>RXA00679-downstream
 TGAATCGCAGTAATTTACCCGCT

>RXA00680-upstream
 TTCTTGATCCCCAGAACGCCGAATACATCACTGGGCAAACACTCATCGTTGATGGTGGCC
 GACAGTTTCATCTAAGTACTAAAAGTTCTAAGGAGAAGATC

>RXA00680
 ATGTCTACTATTTCATTTTCATTGATCATGCTGGCAAAACCCGCAACCATCGAGGGCGACTGTT
 GGTGATTTCAGTAATGGAGACCGCAGTCCGAAACGGAGTGCCTGGAATTGTTGCTGAATGC
 GGCGGTTTCCTTATCGTGTGCAACCTGCCATGTGTTTGTGACCCCTGCACAGTATGATGCG
 CTTCCCCCAATGGAGGAGATGGAAGATGAAATGCTGTGGGGTGCTGCCGTGGACCGTGAG
 GATTGCTCCCGTTTGTCTTGCCAAATCAAGGTCACCGAAGGCATGGATCTTTTCGTTGACC
 ACGCCAGAAACGCAAGTG

>RXA00680-downstream
 TGAGGTTGAATCATGAATACTTC

>RXA00682-upstream
 ATAGGCACCTTCGATTTTCAGCTCAATCACCGTCGCAATGACCGGCACGAAGTAAACCAC
 CGCATCTTTTCGTCGAAAAGCATCTAAAAGGAGTTTGACC

>RXA00682
 ATGGCTAATAAATCTTTCCCAAGCCCTCCGATCTTCCAGTGCCCAAGGGCGCTGAAGGT
 TGGGAAGATCTGTACCCGTACTACCTCGTTTTCCAAGACAAGCTCATGGATCAAGAGAAT
 GAGAAATTCTGGTTCTGCGATTACAGCACTGGCCAACTGTGTTCAAGCCTTTTGAAACT
 ATCGGTGGTGAATTGCTGTAAAGTGCCTCGGCCAATACAACGCTCGGCATTTGATGATC
 CCGAATGCCAATGGCATCGAGTTCGCGGTGCATCTGGGATACCTCTATATGTCCCCTATT
 CCAGTGCCTGAAGATCAGATTGCGGAACGCGTCCCATGTTCCAGGAACGCATCACGCAC
 TACTTCCAAAACCTGGGAGCCAATGCTGGCAAATTGGAAGGAGCGAGTATTAGGAACCATC
 AATGAGCTGGAATCTCTAGAATTCAGCCACTGCCTGACTACGTGCCTATCGATGATATT
 GTCTCCGGAAAAGCCAAAGACGGCACCGAAGTACTCATGGAAAACCTCGATCGGCTCATT
 CAGCTCGCCTACCAAACTGGCAATACCCTTTGAGTTCCCTCAACTTGGGTTACATCGCT
 TACCTAGATTTCTCAATTTCTGCAAGGAAGTCTTCCAGATATCCCTGATCAATCAATT
 TCGATGATGGTTTCAGGGCGTGGATATGGAGCTGTTCCGCCCCGATGATGAACTAAAGATT
 CTGGCACAGCTAGCGGTGACCTTGGCCTGCAAACTCACTTTGCCAACCCGGATGATCCG
 CAAGCTACCTTGGCTGCTATCGCAAAGGCAGAAAGGCGGCGGACATGGATAGCGCGCTGG
 GAAGAAGCACAAAGATCCGTGGTTCAACTTCACCGTCGGTAATGGCTTCTACGGTCACGAT
 AAATACTGGATCGAGCACCTGGAACCTCCACTGGGGTACATCGCGGATTACATCCGCCGC
 CTAGATGAAGGCCAAACCATCTCCCGCCCCGAAAGATGAACTCATCGCAGAAAAGGAACGC
 GTGGTGGAAAGAATACCGCGACCTTTTGATGGAGAACAACCTCGCGCAGTTTGATGCTAAA

TGCGGCCTCGCTGCTACTGCATACCCCTATGTGGAAAACCATAACTTCTACATCGAGCAC
TGGACCATGTCTAGTATTTTGGCGCAAAGTACGCGAACTTTCCCGCACTCTCCAGGGCTAC
GGTTTCTGGGAGAACGAGGATGACATGTTGTACCTCAACCGCACTGAAGTCCGCGATGTC
CTCTTCGACCTGGCTACTGCGTGGGGTGTGCGCGCACCCGGTGGTCCAATTGGCAGCATC
ATTTGGCCGGAAGAAATTGAGCGAAGAAAAGCAATTGTACCCGCTTTGAAAAC TGCCCGA
CCAGCGCCAGCTCTTAACACTCCTCCAGAGTCCATCACCGAACCTTTCACCCGCATGCTC
TGGGGAATCACCACCGAACAGGTGCAATCATGGTTGGGCAATGACGAGGATGCCGAAGAA
GGAACCTTAAAGGCATGGCTGCATCCCTGGTGTGGTGGAAAGGCTACGCTCGAGTAATT
CTCAGCGCAGATGACCTTTCAGAAATCCAGCAGGATGAAATCCTCGTTGCCCTGTACA
GCACCTTCTTGGGGCCCAATCTTTGGCAAAATCAAGGCAACAGTCACTGATATTGGTGGC
ATGATGAGCCATGCTGCGATCGTGTGCCGCGAATACGGCTTGCCGGCTGTTACTGGAAC
GGCGCTGCATCCACCACCATCAAACCGGCGATTACCTCAAGGTGCGATGGAACCAAGGGC
AAGGTTGTCAATTGTTGATCCAGATGCGCCACGCATCGAAGGACCCGGCGCGCACAGCCAT
GCGCACTCAGTAGCAGCACATGGGGTGGATACACATGCC

>RXA00682-downstream
TAGTCCACGCACTGTTCTTATCA

>RXA00683-upstream
GGACAAAGCTATCGGGTTCCGGGAGAACCTCTCCTTCCGCGTCCCCACTTCTGTTCCCGT
GACTTGGAACGCTTAACGCTTTATTAAATAAGGAGACACC

>RXA00683
ATGACCAACAGTTTGAACATCCCGTTTGTCCAGCGCTTCGATGAAGGCCTGGATCCTGTT
CTAGAAGTACTCGGTGGCAAGGGCGCTTCACTAGTACCATGACAGATGCTGGAATGCC
GTTCCACCTGGATTTGTGGTCACTACTGCCAGCTTTGATGAATTCATCCGTGAAGCAGGG
GTTGCTGAACACATCGATAAATTCCTAAACGATCTCGATGCAGAAGATGTTAAGGAAGTG
GATCGAGTTTCTGCGATCATCCGCGATGAGCTGTGCAGTCTTGACGTTCCAGAGAATGCT
CGTTTTCGAGTGCACACAGGCTTATCGCGATCTCATGGAACGATGCGGTGGCGACGTCCCG
GTTGCTGTCCGGTCATCGGCCACTGCCGAAGATCTGCCCGATGCTTCCCTTCGAGGGCAA
CAGGACACCTATCTGTGGCAAGTCGGTTTGTAGCGCTGTCACTGAACACATCCGTAAATGC
TGGGCTTCGCTGTTCATCTCCCGTGCCATTATCTACCGTCTGAAAAACAACATCCCCAAT
GAGGGCCTCTCCATGGCGGTAGTTGTTCAAAAAATGGTCAACTCTCGTGTGCGAGGCGTG
GCAATCACTATGAATCCTTCCAACGGCGACCGCTCGAAGATCACCATCGATTCTCATGG
GGTGTGTTGGTGAATGGTGGTCTCAGGTGAAGTGACACCAGACAATATCTTGCTGGACAAG
ATCAGCTGCGAGTTGTCTCCGAACACATTGGAAGCAAAACACGCTGAATCATCCCCGAT
GCCACAGTGGAAGCCTCGTGGAAGAGCCCGTTGATGAAGAACGCGCAAACCGCCGAGT
CTGACTGATGAGGAAATGCTCGCTGTGGCACAAATGGCTAAGCGTGCAGAAAAACACTAC
AAGTGCCACACAAGATATCGAATGGGCGCTGGACGCTGATCTGCCAGATGGAGAAAACCTT
CTGTTATTGCAATCCCGCCCGGAAACTATCCACTCCAACGGTGTGAAGAAGGAAACCCCA
ACTCCGAGGCTGCCAAAACCATAGGCACCTTCGATTTTCAGCTCAATCACCGTCGCAATG
ACCGGCACGAAG

>RXA00683-downstream
TAAACCAACCGCATCTTTTCGTC

>RXA00686-upstream
ATAGGCTTGAACAATACGTCGTTACACTGGCCGATTTGATACCTTTCAAACTTTTACCC
TTCATCGGAGTGCCAGGGGAACCTTAGAGGAGCATTAATA

>RXA00686
ATGGCGGGAGGAAATCGCGAACCTGGACGTACAGTCACCTCCAAGGTGATCGCCGTA
GGAGCTTTTGAACACACCATGCGTCCACTTGGTGTCACTGAAATCGCTGAGCTGGCAGAC
CTCCCACTAAGTACCAACCGCTCTCGTTTCTGAATTAACCGAAGGCGGACTACTCAGC
AAGAAATCTGATGGGCGCTACCAATTGGGCTTACGTATCTGGGAACTCGCCCAAAATACA
GGACGGCAGTTACGCGACACTGCACGCCCGTTTCATCCAAGAGCTCTACTCACTTACTTCC
GAGACTGCGCAGCTAGTGGTCCGCGATAAAGATGAAGCACTTTTGATTGACCGAGCCTAC
GGCAGCAAGAAAATTCACGCTCGGCTCGAGTCGGTGGTTCGACTACCTCTGAACTCCACT
GCGGTTGGCAAGATTCTCCTTGCGTTTGTGAGCCATGGGTAAAACAGTCCTATCTCAAG
CTGCCACTCAACGCCTCCACCCCAAAGACAATTGTGAATCCCGACGCTTTGGCTGCGCAG
CTGAAACAAATTCATCTCGCAAGGCTTTGCCATCACACATGACGAGCAACGAATCGGCGCG

GCATCGATCGCCGTACCGGTCTGGCATACAGGAAAACCTGGGAGCAGCACTGGGGTTGGTG
GTTCCCAACCGCACAGGCTGCAAATCTTGAGCGCTATCTCCCGATCCTTCAGGCGACAAGT
CAGAGAATTACAAAAGCAACCGCGCTCATTCTTTGGACACACTTTTGGCTTCACACAAA
AATGCAGAACGAAAAGGCGATACC

>RXA00686-downstream
TAAACCCGCCCTCCATCTGCATA

>RXA00700-upstream
ACGCCCCACAAGTCGCAAAAATCACCGCCGGCATCCAAGAGGAATCACACTGGCTCACAG
TCTCGGCCGTGAAAGCTGCGCTAGGGCATGGTGAAATCTC

>RXA00700
ATGATCAACGCCATCACACTCAAGCCCCAAAACCTTCTCACCTTAAGCTTCCTTGCGGTT
TTGAGCATCGTGATTTTCTTCTGGCCGCTGATCGTCAACCCGGAATCCTTCTGTCCGAC
AAAGCCCAAGCGCCCTCTACATCGCGATCGTCATTCCCCTCGTGCTGGCCGCTGTCATC
GCCGAATCAGTGAAAACGGATTTCGACGTTAAAGCCGTAGCCATGCTCGGCGTCCCTCACC
GCCATGGTTGCCGTAGTCCGACCATTCCGGTGCCGGCGCAGCAGGCTTTGAAGCAGTCTTC
TTTGTCTCATCCTCGGCGGACGAGCCTTCGGACCCGGCTTCGGATTATCCTCGGCAAC
ACCGGACTGTTTCGCATCCGCGCTGCTCACCGCAGGAATCGGACCGTGCTCCCCCTACCAA
ATGCTCGCAGCCGCTGGGTGAGCTTCGGCGCCGGCCTACTCCCCAAGTACGCGGCAAA
AAGGAAATGCTCATCATCGTCTTATACGCCATCGTCTCTTCACTCGGCTACGGAACCATG
ATGAACATGAGCTTCTGGCCCTACGCCATCGGTGTACCAGCGGGCTTTCCTTCACACCC
GGCGCGCCCGTCTGGAAAACCTCCACACCTTCATGCTGTTCTGCCTCACCACATCCATG
GGTTGGGATCTCGGCCGCGCCTTCTTACCTCAGTGCTATTACTGCTCACAGCCAAACCC
GTTTTAGGTGCTTTACGACGCGCCAGCCGCGCGCCGCTTTCGGCGTCGAGCGTGACTTC
GGGGAGGCCGGGGTGCCCTCGGGTC

>RXA00700-downstream
TAAAGATTTTGTGGCTTGCTTC

>RXA00703-upstream
CTGGGAGTCTCTTGATTTTAGGTTTTCCACATACCCCATATAGATTGAAGAATTCATT
TTTCGGCATGGGTTCAATTGCCGGGTCTAGACTGTGACCT

>RXA00703
ATGACAACCCCTCCAACCTGAGATTTTCGAACGTGAATCCCACCGCAATGAATTTGATGAT
CCGGATGTGGGACGGCGCATTACTTCTGCTGCTGGTGTGCCAGGCGTTTGCATGCGCTC
CAGCATGCTGTTCCGAATCGTGCCCTGCTGCCGTTGCTCACCATGAATAAACAGGCGGC
ATCGACTGTCCTGGTTGTGCTTGGCCTGAGCCTTCCACTGCCAACCTTGGTGTGGTTGAG
TTCTGCGAGAACGGTGCCAAGGCGGTGCGCGAGGAAACAACACCTGATCGTGCCGGCAAA
GAGTTCTGGGCAGAGCATTTCTATTTATGATCTGCGGGAAGACCGATCACTGGCTGGGA
AAGCGTGGCCGAATCACCGAGCCCATGTTTTATGATCGTTCTTCTGGCGATGATCACTAC
CGCCCTATTTCTTGGGATCGTGCAATTTGCGATCATTGCGTCGAAGCTCCGCGAGATCGAG
CCAGATGAAGCGGTGTTTTACACCTCTGGTTCGAGCACCCAATGAGCCGGCTTATATGCTG
CAGCTTCTAGCCCGCCGACTTGGCACAAATAATCTTCCAGACTGTGGAAACATGTGCCAC
GAGTCCACCGGTACTGCCTTGGGTGAGACCTTGGGTTTGGGCAAGGGATCCGTGGTGATG
GAGGATTTCTACAACACTGATTTGTTGATTTCCGTGGGACAAAACCCGGGCACCAACCAC
CCACGTGCGTTGACGGCTTTCAAAGAATTGAAGGAAAACGGTGGCAAGATTCTGGCGCTG
AACCCCATGCCAGAGACCGGTCTGATGAAATTCCGTGAGCCCCAATCAGTCAAGGGCGCG
TTGAGCATTTTCAGACAAACTTGCTGATGAATACTTGACAGATCCGTCTTGATGGAGACCGC
GCATTCTTCCAGGCGCTCAACAAGGAACTCATCCGTAGAGATGCCCTAGATCATGCATTCT
TTGGATAAATTTCTGTTTCAAGGTGTGGATGAAACCATCGAGCACCTCAAATCACTCGATGAT
GAGGTTCTGCTCAAGGGATGCGGTCTGACGGCAGCGGAGATCAACAAGGCCGCTGACATG
GTGGAAGAGTCTGACACCGTGTTGGTGTGATGGAATCTCGGGGTACCCAGCATAAGAAC
GCTGTGTACACCATCCGTGAAATGGTGAATTCCTGCTGCTTACTGGAAATATTGGTAAG
CCTGGCGCAGGCACTGCCCCGCTTCGTGGGCACTCAAACGTCCAGGGTGATCGAACCATG
GGTATTTGGGAGAAAATGCCGGAGGCATTCTTGTGCTCTTGAAAACGAGTTTGGTTTC
GATGTGCCCCGCAAGCACGGCTTCGACACGGTAAATTCCTGCGAGCCATGCGCGAAGGC
AAGACCAAGTTCTTTCTCTCCCTCGGTGGCAACCTTGTTTCGAGTGTCTCAGATACGTCT
GTTGTGAAAAGGGCATGGAATCCAATGAGCTGACGGTGATCTGTGACCAAGCCCAAT

GGTTCACAAGCATGGCCTGGTGAGCAGTCACTTATCCTTCCGGTGATTGCTCGAACAGAT
 AAGGATGTCCAAAAGTCAGGCGTCCAGCGTGTGACAGTTGAGGATTCTGCCGCGCTGTT
 CACGCATCCACTGGTAAACGAACCGCCAACAAGGATCTGAATTTGAAGTCCGAATGCGAC
 ATCATTGGAACCATCGGTAAGCAGACCTTCGGTGATGCCTTCTGGCAGCCGATGATTGAT
 AACTACGATGTGGTCCGCGATCACATCGAGGCCACCATTCTGGGTTCCACGATTTCAAC
 CGTCGCATCGACAACCCCGGTGGATTCCCTCCTCCCCAACGGACCTCGTGAGCGCATCTTC
 AACACATCCAATGGCAAGGCCCAATTGACGGTTAATGAAACCAATGTGATTGAGCTACCC
 AAGGACTATTTGCTTATGAACACGGTACGTTACATGATCAATACAACCTCCACGATTTAC
 GGTCTGGATGACCGCTACCGCGGTGTTTCGCAATGGTCGCCGCGTAGTGTTTCGTCAATCCT
 CAAGATTGTAAGCAACGTGGTCTCAAGGATGGAGACATCGTCGATATCGTCTCTGTCTTT
 GATGATGGCGAACGCCGAGCACCGAATTTCCGAGTGGTGGAATATGACACCGCGAGGGAC
 TCGCTCACCACGTATTTCCCTGAGGCCAACGTATTGGTTCCATTGGATTGAGTAGCTGAA
 AAATCCAACACTCCAGTGTCGAAGTCAGTTGTGGTTTCGCCTTGAAGCAACAGGACGTACT
 GCTTCT

>RXA00703-downstream
 TAGAAAAACACCAGGGAATTTTC

>RXA00705
 CCACGCGTTGTGTCCACTGACGAGCAAGTTTTTGTTAACACTCGTCCGGATACTGTTGCG
 GTGGAGGAGCCTCTAGAAATTCGGGTAAATGGCACTGCGCTTACCACCCTATGCGCAGC
 CCCGCCCATGATATTGAGTTGGTGCATGGCCTCCTCTTGTGAGAAGGTCTGATCAGGAT
 GCTTCTGAGGTTTTTACC GCCCGCTATTGTGCAGGAGCTGTTGGCCAGATAATCAAAT
 ACGTACAACGTCTTAGAACTTGATGTCATCCCCAAAGACAATCCGGCCCCGGGATCCCGTC
 CAGAATCCCTCCCATAATCCCGAAGGCAGCCAACACGAAGCACTCCACATCCCAACTTTC
 CAACCGGTACGCGAACTAAACCTCGTGGCAGCCCAACGCAATGTGCTGACTACGTCTGCT
 TGTGGTGTGTGTGGCACGACGTCTATTGAGCAGTTGATGAACAAGAAGGGCTGGCCCAT
 ACGCCGATTACACCGGATCCTCGGATGATTGTGTCGTTGCCAGATAAGTTGAAGTCGAAG
 CAGAAGATTTTCGACAAAACCTGGTGGGGTTTCATGCTGCTGGTTTGGCCACGCTTGATGGT
 GAGATGTTGATTATTCGAGAGGATGTCGGTCCGACATAACGCAGCTGACAAAGTTATAGGA
 AACATGCTGATGGCGGGAAAGCTCCCTTGGAAAACACTATTTTGGTGATGAGTTCTAGG
 GCGTCTTTTGTGCTTGTCCAAAAGGCTGCCATGGCTGGAATTTCCGGGTGTAATCGCTGTT
 GGTGCTGCAACATCGCTGGCAATCGAGGCGGCGAGGATTACAGGTATTTTCCTTGCTGGT
 TTTGTTCCGGGGCAACAAGTTTAACCACTATGCGGGCGAGCTCGGA

>RXA00705-downstream
 TAATGCCAGAACAGGTAGAACAG

>RXA00782-upstream
 GGGTATGGATGCAGCGGCTGATCACGCTGCCCATTTGGCCAATCTTGCCAGCACGGCCA
 GTTCGCAACCGCTAATTAGTTAAGGAGCACCTGTTTAATC

>RXA00782
 ATGTCTATTTTCTCAATTCAGATTCCCGCATCATCATTCAGGGCATTACCGGTTTCGGAA
 GGTTCAAGCATGCGCGTCGAATTTTAGCCTCTGGTGCGAAGCTCGTGGGTGGCACCAAC
 CCCCAGAAAGCTGGGCAAACCATTTTGATCAATGACACTGAGTTGCCTGTATTTGGCACT
 GTTAAGGAAGCAATGGAGGAAACGGGTGCGGATGTCACCGTAATTTTCGTTCTCCAGCC
 TTTGCCAAAGCTGCGATCATTGAAGCTATCGACGCTCACATCCCCTGTGCGTGATTATT
 ACTGAGGGCATCCCAGTGCGTGACGCTTCTGAGGCGTGGGCTTATGCCAAGAAGGTGGGA
 CACACCCGCATCATTGGCCCTAACTGCCCAGGCATTATTACTCCCGGCGAATCTCTTGCG
 GGAATTACGCCGGCAAACATTGCAGGTTCCGGCCCCGATCGGGTTGATCTCAAAGTCGGGA
 ACATGACTTATCAGATGATGTACGAACCTTCAGATATTGGCATTCTACGGCGATTGGT
 ATTGGCGGTGACCCAATCATCGGTACAACCCATATCGACGCTCTGGAGGCCTTTGAAGCT
 GATCCTGAGACCAAGGCAATCGTCATGATCGGTGAGATCGGTGGAGATGCAGAGGAACGC
 GCTGCTGACTTCATTTCTAAGCACGTGACAAAACAGTTGTGGGTTACGTGGCAGGCTTT
 ACCGCCCCCTGAAGGAAAGACCATGGGGCATGCTGGCGCCATCGTGACAGGTTTCAAGGC
 ACTGCGCGAGCAAAGAAGCATGCATTGGAGGCCGTGGGTGTTTCGCGTGGGAACAACCTCCG
 AGTGAAACCGCGAAGCTTATGCGTGAGGTAGTTGCAGCTTTG

>RXA00782-downstream
 TAACTAACAGGCCACAGATCTTA

>RXA00783-upstream

AAAGTTCCCAAGGGGTGGGGGCTGAGCACCACGGATCCAATTTTGTGCAATTTGCAAAG
TTTACAGTGTTAGACTTCACAATACGATCATATTGGTGAG

>RXA00783

TTGAAACACTTACTTTTACGGGAAGACTTTGTAAAGACGCAGAAGGCTCTAAGCATGGG
CCGGAATGGAATTGGCAGTGGATCTTTTGAATACCAAGCACGGGACCTCTTTGAAACC
CATGGTGTGCCAGTGTGTAAGGGAATTGTGGCATCAACACCAGAGGCGGCGAGGAAAGCG
GCTGAGGAAATCGGCGGACTGACCGTCGTCAAGGCTCAGGTCAAGGTGGGCGGACGTGGC
AAGGCGGGTGGCGTCCGTGTGGCACCAGCTCGGCTCAGGCTTTTGATGCTGCGGATGCG
ATTCTCGGCATGGATATCAAAGGACACACTGTTAATCAGGTGATGGTGGCGCAGGGCGCT
GACATTGCTGAGGAATACTATTTCTCCATTTTGTGGATCGCGCAATCGTTCGTATCTG
GCTATGTGCTCTGTTGAAGGTGGCATGGAGATCGAGATCCTGGCGAAGGAAAAGCCTGAA
GCTTTGGCAAAGGTGGAAGTGGATCCCCTCACTGGTATTGATGAGGACAAAGCGCGGGAG
ATTGTCACTGCTGCTGGCTTTGAAACTGAGGTGGCAGAGAAAGTCATTCCGGTGTGATC
AAGATCTGGCAGGTGTATTACGAAGAGGAAGCAACACTCGTTGAGGTGAACCCGTTGGTG
CTCACGGATGACGGCGATGTGATTGCGCTTGATGGCAAGATCACGCTGGATGATAACGCT
GATTTCCGCCATGATAAACCGTGGTGCGTTGGCTGAATCTGCCGGTGGCTTGGACATTTTG
GAACTGAAGGCCAAGAAGAATGATCTGAACTACGTGAAACTTGATGGCTCTGTGGGCATC
ATTGGCAATGGTGCAGGTTTGGTGATGTCCACGTTGGATATCGTGGCTGCAGCTGGTGAA
CGCCATGGTGGGCAGCGCCCCGCGAACTTCCTAGACATTGGTGGCGGAGCATCAGCTGAA
TCGATGGCTGCTGGTCTCGATGTGATCCTTGGGGATAGCCAGGTACGCAGTGTGTTGTG
AATGTGTTTGGTGGCATCACCGCGTGTGATGTGGTGGCAAAGGGAATCGTTGGAGCTTTG
GATGTGCTCGGCGATCAAGCAACGAAGCCTCTTGTGGTGCGCCTTGATGGCAACAACGTG
GTGGAAGGCAGACGAATCCTCGCGGAATATAACCACCCTTTGGTCACCGTTGTGGAGGGT
ATGGATGCAGCGGTGATCACGCTGCCCATTGGCCAATCTTGCCAGCACGGCCAGTTT
GCAACCGCTAAT

>RXA00783-downstream

TAGTTAAGGAGCACCTGTTTAAT

>RXA00794-upstream

GCGGGTTGATACAGCCCAAGCGCCGATACATTTATAATGCGCCTAGATACGTGCAACCCA
CGTAACCAGGTCAGATCAAGTGCCCCAGGAGGCCCTTCAG

>RXA00794

ATGAACCTAAAGAACCCCGAAACGCCAGACCGTAACCTTGCTATGGAGCTGGTGGCAGTT
ACGGAAGCAGCTGCACTGGCTTCTGGACGTTGGGTTGGACGTGGCATGAAGAATGAAGGC
GACGGTGCCGCTGTTGACGCCATGCGCCAGCTCATCAACTCAGTGACCATGAAGGGCGTC
GTTGTTATCGGCGAGGGCGAAAAAGACGAAGCTCCAATGCTGTACAACGGCGAAGAGGTC
GGAACCGGCTTTGGACCTGAGGTTGATATCGCAGTTGACCCAGTTGACGGCACCACCCTG
ATGGCTGAGGGTTCGCCCCAACGCAATTTCCATTCTCGCAGCTGCAGAGCGTGGCACCATG
TACGATCCATCCTCCGTCTTCTACATGAAGAAGATCGCCGTGGGACCTGAGGCCGCAAGC
AAGATCGACATCGAAGCTCCAGTTGCCCAACATCAACGCGGTGGCAAAGTCCAAGGGA
ATCAACCCTTCCGACGTCACCGTTGTGCTGCTTGACCGTCTCGCCACATCGAACTGATC
GCAGACATTGCTGCTGCAGGCGCAAAGGTTGCTCTCATCTCCGACGGCGACGTTGCAGGT
GCAGTTGCAGCAGCTCAGGATTCCAACCTCCGTGGACATCATGATGGGCACCGGCGGAACC
CCAGAAGGCATCATCACTGCGTGCGCCATGAAGTGCATGGGTGGCGAAATCCAGGGCATC
CTGGCCCCAATGAACGATTTTCGAGCGCCAGAAGGCACACGACGCTGGTCTGGTTCTTGAT
CAGGTTCTGCACACCAACGATCTGGTGAGCTCCGACAACCTGCTACTTCGTGGCAACCGGT
GTGACCAACGGTGACATGCTCCGTGGCGTTTCTACCGCGCAAACGGCGCAACCACCCTG
TCCCTGGTTATGCGCGCAAAGTCAGGCACCATCCGCCACATCGAGTCTGTCCACCAGCTG
TCCAAGCTGCAGGAATACTCCGTGGTTGACTACACCACCGCGACC

>RXA00794-downstream

TAAGAGCTCTTAGTTCGAAAAAC

>RXA00799

CTACAATTCGCGATCTCGACGGCGACGGCGTACTTGACCTTATGAAGATTGGCGTCTA
ACCCAGCAGAGCGTGCCGCTGACCTGGTGAAACGTATGAATGTGGAAGAAAAAGCGGGC

CTGATGATCATCGGTTTCGCACTACCCCGGATACTCGCCTTTGGCGCCGGAGAGTGAAGGC
AAAGACGCGGAAAAGTGCAGACCTTTGCTGAACCCTGTGATATGTGGCGTGAGGATAAC
CCGATCACGGGTGTTCTTTACCGAGCCTGTGCTGGCAACTTCTTCCACTGAAAATGCC
ATTAACCTGCGCAATCAGCGTTACTTAATTGTTCTGTGACAACCTGCCAGCTCGTGGGCTT
GCTACTTGGACCAATGCTGTTTCAAGGAGTCGCGGAGCGATCCCGTTTGGGTATTCTCTGTT
GCGTTTTCGCTCGAATCCTCGTAACCACGTCGCGCTCGTTGCGCAGTTCGGTGTGAACGAG
TCCGCGGGTGTGTTCTCTGAGTGGCCTGGCGAGCTGGGTCTTGCTGCGCTTCGCGATGCT
GAACTGATGGAGACTTTCGGTACCGAGGCTGCTAAAGAATGGCGTGCCGGTGGTGTGCAC
AAGCTGTACGGTTACATGGCTGACCTCGCTTCTGAGCCTCGTTGGTCCCGCTTCAACGGT
ACTTTTGGTGAGGATCCGGAGTTGATCTCTGATTACATCGCTGCTGTTGTGCGTGGTTTG
CAGGGCCCTGAGCTGTCCAAGAATTCGCTGTGACCACTTAAGCACTTCCCAGGTGGC
GGCGTGCGCTCGACGGCCACGATCCTCACTTCCACTGGGGTCAGACCAATGAGTACCCA
ACCGAAGATGCGCTGGGCAAGTACCATCTGCCTCCTTTCCAGGCAGCTATCGACGCTGGC
TGCGCCTCGATCATGCCTTACTACGCACGGCCAATGAACAACCTCCGCCAACCAGCTCGAT
CAGCAGCTGTGGCAAAACCCGACCACGCAGTTTGAAGAGGTTGCGTTTGCTTACAACCGC
ACCTTCATTACAGGATTTGCTTCGCGACGCCATGGGCCACCGTGGGTACGTCAACTCCGAC
TCCGGCGTCATCGACGCCATGATGTGGGGCTGGAGGAACCTCAGCGAGCCAGAACGCTTC
GCCGCAGCAGTTCGTCAGGCACCGACATTTTCTCCGACATGGCTAACCACGTCGACTG
CTCGAAGCAGTTGCTGAGGGACACCTTGATGAGTCAGAGCTGAATCAGCCAGTCCAGCGA
CTCCTGGAGGAAATCTTCCAGCTTGGTCTGTTTGAGAACCCATATGTCTCTGAAGATGAA
GCAGAAAAGATCATTGGTGCGCCAGAGTTTCTGCATTGGGCAACAAAGCACAGCTTGAT
TCCGTCACCTTGCTGCGTAACAACCCCATCCGTGCTGCCACTGGATCCTGCAGCAAGCCT
GAAGATCTACCCATTGGTTACTTGCCGTACCAAGATCGACGAGGTTCAACTACAGCTGGA
AGCAGCCATTGCGCGAGAACTCCCAGGGGTAACCTTGGTGTCTTCCGAGTCAGAAGCAGA
TCTTGCAATCGTGTGGGCTCGCCC

>RXA00799-downstream
TGAAATTGCACTGTTTGAAGATG

>RXA00800-upstream
GACTCCGCAGGGATGGCCTACAAGTACGGTCACGGACTTAATTTCTAGATTGTAGGTAGT
CTCGTGGGCACAACCTGAAATCTTATTGAAAAGGAGTGTCC

>RXA00800
ATGAGCACTGTAGTGCCTGGAATTGTGCGACTGTCCAAGGGTGCACCGGTAGAAAAAGTA
AACGTTGTTGTCCCTGATCCAGGTGCTAACGATGTCATCGTCAAGATTCAGGCCTGCGGT
GTGTGCCACACCGACTTGGCCTACCGCGATGGCGATATTTTCAAGTGAAGTTCCTTACCTC
CTCGGCCACGAGGCAGCAGGCATTGTTGAGGAGGTAGGCGAGTCCGTCACCCACGTTGAG
GTCGGCGATTTTCGTCATCTTGAAGTGGCGTGCAGTGTGCGGCGAGTGCCGTGCATGTAAG
AAGGGCGAGCCAAAGTACTGCTTTAACACCCACAACGCCTCTAAGAAGATGACCCTGGAA
GACGGCACCGAGCTGTCCCCAGCACTGGGTATTGGCGCGTTCTTGAAAAAGACCTGGTC
CACGAAGGCCAGTGCACCAAGGTTAACCCTGAGGAAGATCCAGCAGCAGCTGGCCTTCTG
GGTTGTGGCATCATGGCAGGCCTTGGCGCTGCGGTGAACACCGGTGATATTAAGCGTGGC
GAGTCCGTAGCAGTCTTCGGCCTTGGTGGCGTGGGCATGGCAGCTATTGCTGGCGCCAAG
ATTGCTGGCGCTTCCAAGATCATTGCTGTTGATATCGATGAGAAGAAGCTGGAGTGGGCG
AAGGAATTCGGCGCAACCCACACCATTAAATTCCTCTGGTCTTGGTGGCGAAGGTGATGCC
TCTGAGGTCGTGGCAAAGGTTCTGTAGCTCACCGATGGTTTTCGGCACCGATGTCTCCATC
GATGCGGTAGGCATCATGCCGACCTGGCAGCAGGCGTTTTACTCCCGTGACCATGCAGGC
CGCATGGTGATGGTGGGCGTTCCAAACCTGACGTCTCGCGTAGATGTTCTGCGATTGAT
TTTTACGGTCGCGGTGGATCCGTGCGCCCTGCATGGTACGGCGACTGCCTGCCTGAGCGT
GATTTCCCAACTTATGTGGATCTGCACCTGCAGGCTCGTTTCCCACTGGATAAGTTTGT
TCTGAGCGTATTGGTCTTGATGATGTTGAAGAGGCTTTCAACACCATGAAGGCTGGCGAC
GTGCTGCGTTCTGTGGTGGAGATC

>RXA00800-downstream
TAAATGGCTCACGACGGATTGCG

>RXA00825-upstream
CCCGTTTCATGCTGGGCTTTGGTGGCGTGATGGCAACTATTTGTCTGATCATTGTGAGTTT
TAGTGCACGCCGATTCTGAGAAACAACCTAAAGTGAGCCAC

>RXA00825

ATGCGCACAGTAGTTACCGGCGGTGCCGGCTTCATCGGATCCCATCTCGTTGACCTTTTG
ATCAAGGAAGGCCACGAGGTCGTTGTGATCGATAACCTCTCCCGCGGACGCCTGGAGAAT
CTCTCCGATGCGGAAGCCACCGGAAAACCTCACCTTTGTGGAAGCCGATCTTCTCGACGTT
GATTTCAACGAGTTTCTAGGAACCCACAAGCCTGAGGTTATTTTCCACCTGGCAGCGCAA
ATCGATGTGCGCCACTCTGTTGTAGATCCTCTTCACGACGCCGAAACCAACATTTTGTCC
ACCATCCGCATCGCTGACGCTGCCCGCCAGCAGGTGTTGCGAAGGTTGTCTTTACCTCC
TCAGGCGGTTCCATTTACGGTGAGCCTTCGGAATTTCCAGTTGATGAAACCGTGCCAGTG
GATCCACATTTCCCTTATGCGGCATCCAAGGTGTCCGGTGAAATTTACCTGAACACCTTC
CGCCACCTGTACGGCTTAGACTGTTCTCACATCGCACCGGCAAATGTTTACGGCCCCACGC
CAAGATCCACACGGTGAAGCAGGAGTTGTGGCCATTTTCGCGCTGCGACTTCTGGGAGGC
CTGGACACCAAGGTATTTCGGCGACGGCGGAAACACCCGCGACTACGTCTACGTCCGTGAC
GTAGTTCGTGCTTTCTACCTGGCTTCTGGGGAAATCGGTGGGGGAGAGCGCTTCAACATT
GGCACCTCTGTGGAACCTCTGACCGCCAGCTGCACACCCTCGTGCCACTGCGGCAGGT
TCCAAAGATGATCCTGAATATGCACCTGCACGTCTCGGCGATGTGCCACGCAGTGCACCTC
AGCTTCGGCAAGGCCAAAGAGGTGCTTGGTTGGGAGCCTGAGGTGAACATCGAACAAGGT
GTGGCCAAGACTGTGGAGTACTTCCGCACTCAC

>RXA00825-downstream

TAGGGGAAATCCACCACAAATC

>RXA00871-upstream

GGGAAAAGGCGATCACCAGCCGTTGGCTCGACCCAGCAACCCACGGTGGCATTAACTCG
GTTTCCACAGAACGATTAATTGAAGGAGAGCACAGGACT

>RXA00871

ATGCGTTGGTTCCATAAGAAGGGCGAAGTGGCCCGAGATGGTTGGCAAAGCGTTGTGAT
GCCACCACCCAGGTTGGGAATATACCGGCATCCGCATTGCCGAAGTGGGCAGTGGTGAA
TCGCTTGAAGTGAATGACACTGGTGTGGAACGCATCTTCATTCCACTTCAGGGCAGCTTC
GATGTTGCCACCATGGTCAGGTGACCCATCTTCACGGAAGAAAGTCAGTCTTTGATGGA
CCAACCGATGTGCTCTACCTCCCACTGGACAAACAGCAACGCTCAGTGGTCAGGGACGA
GTCGCCGTGGCGGAAGCTCCCACTCAGGAACCAAGGAGTGGAAGTACATCGCTCCAGCA
GAAACTCCTGTGGAGTTGCGTGGAGCTGGCCGCTCGAGCCGACAAGTCCACAACCTTTGGC
ACCCCGGAAGCTCTCGATGCTGCTCGACTAATCGTGTGTGAAGTAATCACCCAGGTGAA
AACTGGAGCTCTTACCCTCCACACAAGCATGATGAGCACATCCAGGACACGAGTCCAAG
CTGGAGGAAATCTACTACTTTCGAAAGCGCCCCATCGCGAGTTGGTGGCAGGGCCGAAGCA
GCAGAAGGAGCTTTTCGGAATGTTTTCCACCTACTCCTCACCAGCGGGGAGATCGATATC
AACGCCATGGTGTACAGCGGCGATATCGCGCTAGTTTCCTTTTCGGATACCACGGCCCTGCC
GTGGCAGCACCTGGCTATGACTTGTACTACCTCAACGTGATGGCAGGACCTGATCCGGAG
AGAATCTGGCTGATTAACGATGACCCAGCGCACGCCTGGGTTTCGAGATACATGGACCGGG
CAAGCATTTGATGATCGCTTGCCA

>RXA00872-upstream

GAAATGTATTGCTTTGTCAGGACAATGTGTTATTGTGTCATGACATGCGATCGTGAGGGTCG
CCACATTCCATCAAAAATGAGTGAAGGGTTGCATCGCCAC

>RXA00872

ATGACTAAGTTGACGAGCACTCACGAAGTCCTAGCTATCGGCCGCTTGGGCGTAGATATT
TACCCACTTCAAAGTGGAGTAGGACTGGCCGATGTTCAATCTTTCGGCAAGTACCTCGGC
GGAAGCGCAGCAAACGTTTCTGTTGCAGCCGCCCGCCATGGACACAATTCCGCACCTGCTG
TCCCGTGTGGGAAATGATCCTTTCGGCGAGTACCTGCTTGCTGAGCTGGAGCGTTTGGGC
GTGGACAACCAAGTACGTTGCCACCGATCAGACTTTTAAGACCCAGTGACCTTCTGTGAA
ATTTTCCCACCGGATGATTTCCCACTGTACTTCTACCGGAACCAAGGCTCCGGATCTC
AATATTGAATCCCGCAGCGTCAGCCTGGACGATGTGCGCGAAGCCGATATTTTGTGGTTT
ACACTACTGGTTTTCAGTGAAGAGCCAAGCCGCGGCACACACCGCGAGATCTTGACTACT
CGTGCGAACCCTCGCCACACCATCTTTGATCTGGACTACCGA

>RXA00879-upstream

AAAAGATGTATTTTCTAACAACCTTACCCTCACGCTACAAATATGCTGTGCCACACGCT
ATTAGTGGCATAATGTTGTGTTGTGACTGCTCGCAGATTT

>RXA00879

TTGAATGAACTCGCCGATCTCTACGGCGTAGCAACTTCTTACACTGATTACAAAGGTGCC
CATATTGAGGTGACGATGACACATTAGTGAAAATCCTGCGTGCTCTGGGTGTGAATTTA
GATACAAGCAACCTCCCCAACGATGACGCTATCCAACGCCAAATTGCCCTCTTCCATGAT
CGAGAGTTCACTCGCCCACTGCCTCCATCGGTGGTTGCAGTTGAAGGTGATGAACTAGTT
TTCCCGGTGCATGTGCACGACGGTTCCTCGAGATGTCCACATCGAATTGGAAGACGGC
ACGCAGCGGGATGTTTCTCAGGTGGAAAACCTGGACAGCGCCACGGGAAATTGATGGGATT
AGGTGGGGCGAGGCATCGTTTAAGATTCTTGGTGATCTCCCCTTGGGTGGCACAAGCTT
CACCTTAAATCCAATGAACGCTCAGCTGAGTGGGTTTGATCATCACCCGGCTCGTCTG
TCTACTGCTGATAAGTATCTTGATTCCCCCTCGCAGTGGTGTGTCATGGCGCAGATCTACTCT
GTGCGTTCCACGTTGTGCTGGGGCATGGGTGATTTCAATGATTTAGGAACTTGGCAAGT
GTGGTTGCCCAGGATGGAGCAGACTTCCTGCTCATCAACCCATGCACGCTGCAGAGCCG
CTGCCTCTACTGAGGACTCTCCTTATCTGCCCACAACCAGGCGCTTTATCAACCCGATC
TACATTCGGGTAGAAGATATTCCGGAGTTTAATCAGCTTGAGATTGATCTACGCGATGAT
ATCGCAGAGATGGCTGCGGAATTCCGCGAACGCAATCTGACCTCAGACATCATTGAGCGC
AATGACGTCTACGCTGCAAAGCTTCAAGTGCTGCGCGCCATTTTGAATGCCTCGTTCC
AGCGAACGTGAAGCCAACCTTTGTCTCCTTCGTGCAACGGGAAGGCCAAGGTCTTATTGAT
TTCCGCCACCTGGTGCGCGGACCGCGAACTGCACAGTCTGAATCTGTCCACGGAATGAG
CCAGACCGCGATGAGCTGACCATGTTCTACATGTGGTTGCAGTGGCTATGTGATGAGCAG
CTGGCGGCAGCTCAAAAGCGCGCTGTGATGCCGGAATGTGATCGGCATCATGGCAGAC
CTGGCAGTTGGTGTGCATCCAGGTGGTGCTGATGCCCAGAACCTCAGCCACGTACTTGCT
CCGGATGCGTCAGTGGGCGCCCCACCAGATGGATACAACCAGCAGGGCCAAGACTGGTCC
CAGCCACCATGGCATCCAGTGCGTCTTGCGAGAGGAAGGCTACATTCCGTGGCGTAATCTG
CTGCGCACTGTGCTGCGTCACTCCGCGGGAATCCGCGTGGAACACGTTCTTGGTTTGTTC
AGGCTCTTTGTGATGCCACGCATGCAATCCCCTGCTACGGGCACCTATATCCGCTTCGAC
CATAATGCGTTGGTAGGCATTCTAGCCCTAGAAGCAGAACTCGCAGGCGCCGTTGTCAAT
GGTGAAGATCTGGGAACGTTTGAGCCTTGGGTACAAGATGCATTGGCTCAGCGTGGCATC
ATGGGCACCTCGATCCTATGGTTCGAGCATTCCCCAAGCCAGCCGGGTCTCGCCGCCAG
GAAGAGTATCGTCCGCTGGCCTTGACCACTGTGACCACTCATGATCTCCCTCCGACTGCT
GGTTATTTGGAGGGCGAGCACATTGCTCTTCGTGAGCGATTGGGGGTGCTCAACACTGAT
CCTGCTGCAGAACTCGCTGAGGATCTGCAGTGGCAAGCGGAGATCCTTGATGTGCGAGCA
TCTGCCAACGCATTGCCAGCCCGGAATACGTGGGACTCGAACGCGATCAGCGCGGTGAG
TTGGCTGAGCTGTTGGAAGGCCTGCACACTTTGCTTGCGAAAACCCCTTCAGCACTGACC
TGTGTCTGCTTGGTAGACATGGTCCGTGAAAAGCGGGCACAGAATCAGCCGGGCACAACG
AGGGATATGTATCCCAACTGGTGTATCCCACTGTGTGACAGCGAAGGCAACTCCGTGCTC
ATTGAATCGCTGCGTGAAAATGAGCTGTATACCCGTGTGGCAAAGGCAAGCAAGCGAGAT

>RXA00879-downstream

TAGGTCCGCTTCAGTTGTGGTGG

>RXA00909-upstream

TCGATGTGTGTTGCTAACTGGGGGTGGCACGCACGTTGGCGTTGTTGTTTGGTGTGGCTC
CAGAGTAATCCACAACGCGCAAAGGGGAACTGGAGAACAC

>RXA00909

GTGCTCATTCTTTTTCTCGCGCTCACTGCAGCCGAGTAGTCGCCCCCATCCTGATCCGA
ACTCTCGGTGACACAGCTTTTGGTCTGCTGGCGCTTGACCTGGCATTGGTTTTTTCTGG
GTGCTTTTCGGAGTTCATCAAAGGCACCTTTCAAGGATGGAGGTGAACTCCTCCTCCACTAT
GCCTGGATGCCTTCGGCTCACCTCAATATCGATTTCCGTATGGATTCCCTCGCGGCGCTG
TTCTCACTCATCGTCTTAGGCGTGGGCGCCCTAGTGCTGCTGTACTGCTGGGGATATTTT
GATTCCAACGCGGGTGCCTCAGTGCCCTTTGGTGCTGAACTGGTGGCCTTCGCCATGGCG
ATGTTTGGTCTTGTCAATTCAGACAACATCCTGCTGATGTACGTCTTCTGGGAAATCACC
TCCGTTTTTATCCTTCCTCCTGGTTGGTTATTACGGCGAACGCGCATCTTCAGTCTGCTCT
GCAGGTCAAGCCTTGATGGTGACCACTGGGTGGATTGGCCATGCTGGTGGGCATCATT
TTGATGGGTACCCAAACTGGCGTGTGGCGATTCTCTGAGATCCCTGCCTACTCAAGCTCC
TGGGCAGATGTGCCGTATATTTCCGCTGCTGCTGCCCTTATCTGGCTGGCGCACTATCC
AAATCGGCTATCGCACCAACCCACTTCTGGCTTCCCGGCGCGATGGCCGCACCAACGCCG
GTGTCTGCTTACCTGCACTCCGCGAGCGATGGTGAAGGCGGGTATTTACCTTGTGGCTCGC
CTCTCTCCAGACCTCAACGTAGTTGGTTTCGTGGTACCTGATCATCATCCCGTTGGGCATG
TTGACCATGCTCATG

>RXA00910

TACGTTGGTTTCGAAGTGCTGCTGGTGGCGTCATACGTGCTGCTCACCTTGGGTGCATCG
 CCGGCACGTGTACGTTCCGGCGTGGGTTACGTGATGGTGTCCATGGCGTCATCGATGGTG
 TTCCTGTTTGGACTCGCAATGGTTTACGCCTCAGTGGGCACGTTGAACATGGCTCACGTT
 GGCCTACGCATGGAAGATGTTCCGTCTGGAACCTCGCTCCGCGATCTTCGCAGTGTGCTC
 GTGGCATTCCGGTATTAAAGCTGCCGTGTTCCCCCTAGATTCTTGGCTGCCGGACTCCTAC
 CCCACCGCGCCATCGCTGGTCACCGCGGTGTTTCGCAGGTCTGTTGACCAAGGTGGGTGTG
 TATTCCATCATTTCGAGCACGCTCGATTATTTTACCGATGGATCCCTTGACACCATGCTG
 ATGTGGGTGGCACTCGCCACCATGCTCATTGGTATTTTGGGCGCGATGGCGCAAAACGAT
 ATCAAACGTTTGTGTCTATTACTCTGGTCAGCCACATCGGCTACATGATCTTCGGCGTA
 GCCCTTGGATCTGCACAGGGTTTGTCTGGTGGGATCTTCTACGCAATCCACCACATTCTG
 GTTCAGACTTCCCTGTTCTTGGTGGTGGTCTGGTGGAAACGCCAAGCCGGATCCTCCTCG
 CTGCGACGCTTGGATCCCTGGCATATATCTCCCACTTCTTGGCATTTTGTACTTCATC
 CCCGCCATCAACCTGGGTGGTATCCACCGTTCTCCGGCTTCTTGGGCAAGATCATGCTC
 ATCGAAGCCGGCGCCGAAGATGGCAGTTGGCTGGCATGGGTCTTATCGCAGGCGCCGT
 GTCACCTCACTGCTCACCTTGTACACCATGGTCTGGTCTGGTCCAAGGCCCTTCTGGCGC
 GACCCGTAAGACGCCCCCGATGGAGCAACCGCACTTGCAGCGACCCGACCTTTGGTAGAT
 GTCCTAAGACGAAGTCGCCGTTAAAGACCGCAACGATGTCGGACGGATGCCCTGGGGCATG
 GTCTTCTCCACTGCTCTCCTGGTTTTCAGCATCTCTTGCTGTATCCGTGCTCGCAGGACCA
 CTGTCTATCTATTACTGGACGCGCCGCCGAATCCGCACAAGATGTCAACATCTACCGCGCC
 GCAGTACTCGGCCCAACTACCTCGACCCATCACGCACACTCGAGATGGAGCGTTACGAC
 GCCAACC GCGATGACATCAACCACCGCTCGACACCAACGGAACGGAGGACCAACCA

>RXA00910-downstream

TGATCAGTGGATTCAAACGACGA

>RXA00913

ATTATTTCCGTGGTGGGCATTGGTACCCGCGAAGCTTTGCTGGCAGGTCTTGCACTGACC
 GTTGGCGACTCCTTGT'TTAAGGCAACATTGTTTCATGACAGTTGGTGGCATTGACCACACC
 ACCGGAACCTCGTGATATTTCGTAACCTCTCCGGTCTGTGGCGTAAACAACCGATCCTGTTTC
 GCCGTTGCTGCTGTTTTCGGCGGCGTCCATGGCTGGTATTCCGCCACTGTTTGGTTTTATC
 GCCAAGGAACAGCGCTGGATACCGTGTGTAATGAGCAGATGTTGCATGGCATGCCAGGT
 CGATTGATGCTGGCTGGCATCGTTTTGGGTTCATCTTACCATGGCATATTCCTGCTAC
 TTCCTGTACGAAGCCTTTGCCACGAAGCACTCCAAATTCCCAGAGGCCAACGGTGTCTCA
 CCTGAGTGGAGGCAATGCATCCGGTGAAGTTTAAGCTGTGGATCGCACCTGTATCCTG
 GCTATTTTGACCGTAGTGTTTGGTGT'TTCCCAAGCCAGTGTGCGAAGCAATTGTCACG
 CATCTTGATAACGTACGCCATCGCTTGATGATGTCCACACCAAACCTGGCCTTGTGGCAT
 GGTCTGAATCTACCGCTGCTGCTGTCTGTGGTGTATCATATTTCCGGATTATCATCTTC
 TGGGAGCGAGACACCGTGAACGTTTGGCGCCCTAACACCGCAGCGTTTGGCAGTGCCGAT
 ACCGCCTACGACGCCATTCTTGATGCACTGCGTGTGCTCTCCACCGCCTGACTGCATCC
 ACCCAGCGTGTTCTTTGACCCCTGAACGTGCGGTGTGATCTTCTTCGTCCCTCACGATTGTT
 CCGCTGATCGCTTTGATCACTGGCGAACAAGCGATGTCCGATGGAGCTGTGGGATAGC
 CCTATTACAGGGCTTCATCGCGGCCATCATTATCGTCTGCGATTGTGGCAACCACCATG
 GATAACCGTTTGTCTGCGCTGATTTTGGTGGGTGTGACAGGTTATGGCATTGCCGTTATC
 TTCGCGCTACATGGCGCACCGGACTTGGCGCTAACCAGGTGCTGGTGGAGACCATCGTC
 ATGGTGGTATTTCATGCTGGTGTGCGTAAATGCCGACAGAAGTTGCGTGGAAGGCAGAA
 CCTAAACAGTCTCGCGTGGGAGCGTGGCTTGTGGCGCCACCGGATTGTCCGTTGTTATT
 GTCACCATTTTTTGGCATGAATGCTCGCACCACTGAACCGATCTCTGTATACATGCAGGAT
 CTGGCCTATGAGATCGGACATGGCGCAAACACCGTCAACGTAAGTCTGCTAGACCTGCGT
 GGT'TTTGATACCTTCGGTGAAATTTCCGTCTTGTGATCGCGGCAACCGGTATCGCCTCC
 CTGGTCTACCGAAACCGCAGCTTCCGCAAGGATTCTCGCAGACCAACCTGGCTACCACT
 GGTGCGCGTTGGTTGGCTGCTGCTGTTGATACCGAAAGGGCGCAGAACCCTGCTGATG
 GTTGATGTGGCAACCGCATCCTCTTCCCTGCCATGATCATGTTGTCTGTGTACTTCTTC
 TTCGCGCTACATGGCGCACCGGCGGCGGATTTCGCCGGCGGCTTGTGCTCTTGGCG
 TTCGCTTGGCTACCTTGGCGGTGGACGTGAAGAAGTTGAAGAAGCGTTGCCTATCGAC
 GCCGGCCGTATCTTGGGAACCTGGACTATTTGTTTCTGCAACTGCAGTGCTGTGGCCCATG
 GTTCTTCTTGGTGAACACCGCTGACCTCCCATATTTGGGATCTCACACTGCCACTTATC
 GGTGAGATTACATTGCATCCGCGCTGCTCTTTGACCTTGGTGTCTACCTGATCGTCATC
 GGT'TTGACCATGCACATTCTCAACAGTTTGGGCGGCCAGCTCGACCGGATGAGGAAATG
 CGTAAGCAGCGTGGCGCGGACCGAGCTCGACGCTTGGCGCGCAACCAGCGTCGAGAAGCA
 GCAACCGTTCGGCGCACGCAGGTGCAACGAGAAATCGACACGCCAAATGCCGACGATTCCG

CCTCCAGGGGCAGACACAGAATCGGTGGAGCAGAACGGTGAGAACCAGACGTCGATAAGC
ACAAAGCGTTTAAAGCAG

>RXA00945-upstream

TCACAGTACCACCCACAAGCCACAAGGAGGGTATGGAGGTGGGCGTCTAAAGCCAAATTT
TTCCCGGTGTTTGAGGCGATTGCACCGTACACTAATGTGC

>RXA00945

ATGCTTGAACGCCTCAAACGCCTAGATCCGCTCATTGTCCTCATTGTGCTGGCTGTCATT
GTGGCGATCATCATTCCAGTTCGCGGGGTTGCTGCGGATTGGTTTGATGTCGCCGTCAAG
ATTGCCATTGCGCTGCTGTTTTTTCTTTATGGTGCCCGCTATCCACCCAAGAGGCGCTG
AATGGTCTGAAGCACTGGAGGCTTCACCTGACTATTTTGGCGATCACTTTCGGAATATTC
CCACTTATCGGCATTGGGCTCGAGCCGATGACTGCATTTGTGTCGGAAGATATTTATCGG
GGAATTTTGTTCCTCACGCTCGTTCCGTCCACCGTGCAGTCATCGGTGGCGTTTACCTCG
ATCGCTAAAGGCAACGTAGCTGGTGCGATTGTGTGCGCATCGCTCTCCAACCTTGCGGGT
GTTTTTCCTCACTCCGCTGCTGGTCATGCTCATCATGTCTGCGGGCGGGGAGTTACGTG
GATTTCCAGGTCCTTCCTCGACATTGCGATTGAGCTTCTGCTGCCGTTTCATCCTCGGCCAG
GTATGTAGGCGTTGGGTGAAGAATTTTGGCGCCAACAAGCAACAAAAATCGTGACCCG
GGCTCGATCGCGATGGTTCGTGTAAGTCCGCGTTTTCTGCGCGCATGGTGGCTGGCATTG
TCCACTGTGAGCGTTCTAGAGATTATCTACCTCATTGTTTTCTGCTATTCTGCTGGTGATG
GCCATGCTGTGGTTCACGCTGTTTCATGGCTACACGCCTTGGATTTAACCGGGCAGATTCC
ATCGCTATTGAGTTCTGCGGAACCAAGAAATCCCTGGCCACAGGCCTCCCAATGGCGGCA
GTCATCTTCGGTGGCGCCAATATCGGCCTGCTCATCTTGCCGTTGATGATCTTCCACCAA
GTCCAGCTGATGATTTGTGCATGGCTTGACGCTCGTTATGGTCGTGATGCGCAGGAACAG
AAAGCCAACGCC

>RXA00945--downstream

TAAAAGTCCTCAGTAGCTAGCCA

>RXA00965-upstream

AGATTGCGGGCCTCGGCTTCATTGAAAACAAGACGGTGTTTGAATAA

>RXA00965

ATGACAACCTTTCCACGATCTTCCGCTGGAGGAGCGGCTGACACTGGCCAGGTTGGGCACA
TCCCACTACTCCCGTCAGCTCTCCCTCGTGGACAACGCTGAGTTGCGCGAGCATTCCCTG
CTAGAAGGGTGGACTCGTTCCACCTCATTGCCACGTGGCATAACAACGCCATCGCACTG
TGCAACCTCATGCACTGGGCAAATACTGGTGAGGAAACCCCAATGTACGTGTCGCCAGAA
GCGCGCAACGAGGAAATTGCCTACGGTTCCACGCTCAATCCCGATGCGTTGCGTAACCTG
CATGAACACTCCGTCGCACGCTTGACGCTGGCTTGGCGTGAAACGTCTGAAGATGCTTGG
TCACACGAGGTTCTGACAGCTCAGGGACGCACTGTCCAGCTAGTGAAACATTGTGGATG
CGTTCCCGCGAAGTCTGGATCCACGCAGTTGACCTCGGTGCAGTGGCAACCTTTGGCGAC
ATCCAGAGGTCATCTGCGCACCTTAGCTGCAGAAATCACACAAAAGTGGACAAGCCAA
GGAGCCGGCGAGGACTTGTGCTTCTCGACGAGCCCTCCAGCACTCGCTACCCCGCCGCC
CCAGGGCAGGACGAGGTAGTAGTGTCCGGTAGCCTTGACAGGCATTGTTTCGCTACGCCGCT
GGCCGCGGTTCCGATGGAGTCACCTTCTTCCACTGGAGAGGTTCCAGAGCCACCGCGCTGG
CTG

>RXA00965--downstream

TAGTTTCCACACATTCTTAAATG

>RXA00999-upstream

CCTCCTGTGACCTGGTAAATCGCCACTACCCCCAAATGGTCACACCTTTTAGGCCGATT
TTGCTGACACCGGGCTATGCCGTCAAGTACGATCAATAAC

>RXA00999

ATGACTAATGGAGATAATCTCGCACAGATCGGCGTTGTAGGCCTAGCAGTAATGGGCTCA
AACCTCGCCCGCAACTTCGCCCGCAACGGCAACACTGTGCTGTCTACAACCGCAGCACT
GACAAAACCGACAAGCTCATCGCCGATCACGGCTCCGAAGGCAACTTCATCCCTTCTGCA
ACCGTCAAGAGTTTCGTAGCATCCCTGGAAAAGCCACGCCGCGCCATCATCATGGTTTCAG
GCTGGTAACGCCACCGACGCAGTCATCAACAGCTGGCAGATGCCATGGACGAAGGCGAC
ATCATCATCGACGGCGGCAACGCCCTCTACACCGACACCATTCGTCGCGAGAAGGAAATC

TCCGCACGCGGTCTCCACTTCGTCGGTGCTGGTATCTCCGGCGGCGAAGAAGGCGCACTC
AACGGCCCATCCATCATGCCTGGTGGCCAGCAAAGTCTACGAGTCCCTCGGACCACTG
CTTGAGTCCATCGTGCCAACGTTGACGGCACCCCATGTGTCACCCACATCGGCCCAGAC
GGCGCCGGCCACTTCGTCAAGATGGTCCACAACGGCATCGAGTACGCCGACATGCAGGTC
ATCGGCGAGGCATACCACCTTCTCCGCTACGCAGCAGGCATGCAGCCAGCTGAAATCGCT
GAGGTTTTCAAGGAATGGAACGCAGGCGACCTGGATTCTACCTCATCGAAATCACCGCA
GAGGTTCTCTCCAGGTGGATGCTGAAACCGGAAGCCACTAATCGACGTCATCGTTGAC
GCTGCAGGTCAGAAGGGCACCGGACGTTGGACCGTCAAGGCTGCTCTTGATCTGGGTATT
GCTACCACCGGCATCGGCGAAGCTGTTTTCGCACGTGCACTCTCCGGCGCAACCAGCAG
CGCGCTGCAGCACAGGGCAACCTACCTGCAGGTGTCTCACCGATCTGGAAGCACTTGGC
GTGGACAAGGCACAGTTTCGTGAAGACGTTTCGCCGTGCACTGTACGCATCCAAGCTTGTT
GCTTACGCACAGGGCTTCGACGAGATCAAGGCTGGCTCCGACGAGAACAACTGGGACGTT
GACCCTCGCGACCTCGCTACCATCTGGCGCGGCGGCTGCATCATTCGCGCTAAGTTCCTC
AACCGCATCGTCGAAGCATACGATGCAAACGCTGAACTTGAGTCCCTGCTGCTCGATCCT
TACTTCAAGAGCGAGCTCGGCGACCTCATCGATTTCATGGCGTCGCGTGATTGTCACCGCC
ACCCAGCTTGGCCTGCCAATCCCAGTGTTCGCTTCCTCCCTGTCTACTACGACAGCCTG
CGTGCAGAGCGTCTGCCAGCAGCCCTGATCCAAGGACAGCGCGACTTCTTCGGTGCGCAC
ACCTACAAGCGCATCGACAAGGATGGCTCCTTCCACACCGAGTGGTCCGGCGACCGC

>RXA01015-upstream

CCAAGATTGAGTCGAGCTATTTTGCGATTTGTGAACCCCCAAATAGGGGAAAAGTCCGGG
TATCCGCCGTTGTGAAAATGCCTGCAGTAACTGACTTCC

>RXA01015

ATGCGCGTATACCTTGGAGCAGACCACGCTGGTTTCGAAACTAAAAATGCAATCGCAGAA
CACCTTAAGGCCCCACGGCCACGAAGTGATCGACTGCGGAGCCACACCTATGATGCAGAA
GATGACTACCCAGCCTTCTGCATCGAAGCAGTAGCCGCACAGTAAACGACCCAGGCTCA
CTCGGCATCGTCCTGGGTGGATCCGGAACGGCGAGCAGATCGCCGCCAACAAAGGTCAAG
GGTGCACGTTGTGCACTTGCTTGGTCTGTGAAACTGCACGCCCTCGCCCGGAGCACAAC
AATGCGAACCTCATCGGCATCGGCGGCCGCATGCACTCAGAG

>RXA01025-upstream

GGGCAGCAGCGGCAGGTTTCCAGRAGGTTTCCATGCGGGTGGCTTGGGRACWTGGGCTAAC
CTGARACGGTTAAATATCGTTTTTCGAAAGGTGGGTTTCGC

>RXA01025

GTGGTTTTCTGTAAGCGTGATGGGTGCAGGTTCTGGGGAACCACTTGGCCAAGGTCTTC
TCTGATGCTGGCAACGCTGTGACGTTGTGGGCGAGGCGGGAAGAGTTGGCAAGCACCATC
CGTGACAGCCATGAAAACCGTGATTACCTTCCGGGGATTACGTTGCCGGAGTCGCTGCAG
GTCACATCATCGGCAACGGAGGCTTTAGAGGGCGCAGCCATTGTGGTGTGGCGATTCTC
TCGCAGGCGTTGCGTGGCAATTTGGCGGAGTGGAAAGAGACGATCCCGCAGGATGCGACC
TTGGTGTCTTGGCTAAAGGTATTGAAAAGGGCACGCACCTGCGGATGAGTGAAGTGATC
GCGGAGGTGACGGAAGCGGATCCTTCACGCATCGCGGTGTTGTGCGGGCCAAACCTTGCT
CGTGAGATCGCGGAGGGGCGAGCTGCAGCTACGGTGATTGCTTGCCCTGATGAAAACCGA
GCGAAACTTGTGCAGGCTGCAGTGGCTGCGCCGTATTTCCGCCCGTACACCAACACTGAT
GTGGTGGGCACTGAAATCGGTGGTGCCTGTAAGAACGTCATCGCGCTGGCCTGTGGTATT
TCCCATGGTTACGGCTGGGTGAGAACACCAATGCATCGTTGATTACTCGTGGCCTTGCA
GAGATCGCACGCCTCGGTGCCACATTGGGTGCGGATGCGAAGACTTTTTCTGGCCTTGCG
GGAATGGGCGACTTGGTGGCTACGTGTTTCATACCGCTGTGCGGTAACCGCAGCTTCGGT
GAGCGTTTGGGTGAGGTTGAATCCCTAGAGAAGGCTCGCGAGGCAACCAATGGTCAGGTT
GCGGAGGGTGTTATTTCTCGCAGTCGATTTTTGATCTTGCCACCAAGCTTGGTGTGGAG
ATGCCGATCACCCAG

>RXA01048

CGCTCTGACTTGCCTAACCAGATCAACAACGTGCTGGCGTTCCCAGGAATTTTCGCCGGC
GCTCTCGCAGCCAAGGCTAAGAAGATCACCCCGAGATGAAGCTCGCCGCTCAGAGGCAA
TCGCAGACATCGCAGCTGAGGACCTCGAGGTGCGCCGCATCGTGCCTACCGCCCTGGATC
CCCGCGTTGCCCCAACAGTCAAGGCAGCTGTCCAGGCCGTGCCAAAGCGCAAAACGCTT
AAAAATTTGCTTATCGACGCCTCCCTCCCCGTGAGGGCGCCAATATTT

>RXA01048-downstream

TAAGAGCAAACCTTGAGGCCACACA

>RXA01049-upstream

CACAGTATGTGGAGCAGCTGCGCGCGGAAATCGATGAGAAGGCCTACCACGGCCGCACCG
GCGTCTGCTTGACACCTCCTACCACCCATCGCGCTTGCT

>RXA01049

GTGGTGAAAACCTGAGTTCGAGAAAGAGTTCAACAAAGCCAAGTATGTGATGACCATCGGT
GAGTACGTCTACTTCAAACCTTGCGAGGCATCACCGGAATGGCTACTTCGATTGCCGCGTGG
AGTGGCATTGTTGGACGCCCATACCGGCGAACTTGATCTGACTATCTTGAGCACATCGGT
GTTGATCCGGCTCTGTTCCGGTGAGATCAGAAACCCTGATGAACCAGCCACCGATGCCAAA
GTTGTCGACAAAAAGTGAAGCACCTGGAAGAAATCCCTTGGTTCCATGCCATTCCAGAC
GGCTGGCCTTCCAACATTGGCCCAGGCGCCGTGGATTCTAAAACCGTCGCAGTCGCCGCC
GCTACATCCGGCGCCATGCGCGTGATCCTTCCGAGCGTTCCCGAACAGATCCCCTCTGGC
CTGTGGTGTTACCGCGTTTCCCGCGACCAAGTGCATCGTTGGTGGCGCACTCAACGACGTC
GGACGCGCCGTCACCTGGCTGGAACGCACCATATCAAGCCTGAAAACCTCGACGAAGTG
CTGATCCGCGAAGCCCTCGAAGGCACCCAGCTGTCCTGCCGTTCTTCTCCGGGGAACGC
TCCATCCGCTGGGCAGCCTCAGCGCAGGCCACGATCACCAACATTAGGAACAAACCGGC
CCTGAACACTTGTGGCGCGCGCTTTTCGAAGCCCTCGCACTCTCTACCAGCGCGTTTGG
GAACACATGGGGAAGCCGGCGCAGCCCTGAACGGGTCATCGCATCAGGACGAGTCTCC
ACCGACCACCCAGAATTCTCGCGATGCTTTCCGACGCCCTCGACACCCAGTCATCCCT
CTGGAATGAAGCGCGCCACCTCCGCGGCACCGCACTTATCGTCCTTGAGCAGCTCGAA
CCAGGCGGCACGCGCGCGACGCCACCATTCGGCACGACGCATCAGCCGCGCTTTCGCGCAC
CATTACTCCAAGGCAAGAGAGCTTTTCGACGCCCTCTACCTCAAGTTGGTC

>RXA01049-downstream

TAGCTTTTCGCAGTGGAACGCGC

>RXA01050-upstream

AAGCACAGCAATTGAGCAATACTCCCATGCATGTTTTCGCGTGATCACGCTATATCCTTA
AAGAATATTCTTTATTAGTCAGACCTTTAAAGGAAACCTT

>RXA01050

ATGGGATCAATTCCAACAATGTCCATCCCTTTTGATGACTCACGTGGACCTTATGTCCTT
GCTATGGATATTGGTTCCACTGCATCACGAGGTGGACTTTATGATGCTTCCGGCTGCCCA
ATCAAAGGCACCAAGCAGCGCGAATCCCATGAATTCACCACCGGTGAGGGCGTTTCCACC
ATTGATGCTGACCAGGTGGTTTCGGAGATCACCTCAGTTATTAATGGCATTTTGAACGCG
GCTGATCATCACAACATCAAAGATCAGATCGCCGCTGTCGCGCTAGATTCTTTTGCATCC
TCATTAATCTTGGTCGATGGTGAAGGCAATGCGCTCACCCCGTGCATTACCTACGCGGAT
TCTCGTTCTGCACAGTATGTGGAGCAGCTGCGCGCGGAAATCGATGAGAAGGCCTACCAC
GGCCGCACCGGCGTCTGCTTGACACCTCCTACCACCCATCGCGCTTGCTGTGG

>RXA01050-downstream

TGAAAACCTGAGTTCGAGAAAGAG

>RXA01077-upstream

TCTATGACTTGATCCACAATGTGATGCAAATCATTGACCCTCACCCCGGACCAAGCGCTT
AATGAAGGCAAGCCAACTTAAGTAGTAGATAGGATTGCA

>RXA01077

ATGACCGAATCGCAAGATCTCGCCGCAATTCGTGGAAGCTGCCAAACTCAATGATGCAAGC
CCGAAGCCGTAGAGCAATTGAAAATCAGAGTGCTAGACACCGTAGGCGTTGCCATTGGC
GCACTGGATGCCGAACCGATTGTCGCCATTGAGGACTCCTGGAAGACCTCGGGGGAACC
GAACAGTCAACACTTATTGGTGGTGGCAAAACCAGTCCGGAACGTGCAGCATTTTTC AAC
AGCGCATTAAGCCGCTACCTCGACTTCATGGACGCCTACCTAGCAAAGGGCGAAACCAAC
CACCCCTCGGATAACTTCGGAGCAGTGCTCGCTGCAGCCGAAAGCGTTGGCGCCTCTGGA
AAAGACCTGCTCACCAGATTGCGCGTGGCCTACCAGGTACACACCAGACTTTCAGATGTC
GCACCAGTTTCGCGCCAAAGGTTTCGATCACACCACCAAGGAGCATTCGCAGCGGGCGCA
TCTGCTGCCAAGGCACTGGGTTTGCCAGCTGATCAAATCGCCAACGCACTGGCCATCGCA
GGAACAGCCAATGTTGCACTTCGTGTCACTCGCACTGGAAACTTGAGCCACTGGAAAGGC

CTTGCTACCCACACGTGTCCAAAGAAGGAACCTGGGCAGCACTGCTCGCAAGCCGAGGT
ATTACCGGTCCGGAAGAAGTCTTCGAAGGCAACAAGGGATTCAAAGAGTCCGTCTCCGGA
CCGTTTCGAGATCGATTGGTCCAAGGAAGACTTGGAAAGCGTTAAGCGCACCATCATCAAG
AAACACAACGCGGAAATTCACCTCGCAGTCAGCGCTTGATGCAGCCCAAGAAATACGCGCA
CAAGAAGGCTTCAATGTGGACAACATTGAAAAGATTACCTGACTACTTTTCGACGTTGCC
TACTCCATCATTGGCGGCGGCGAAGAAGGCGACAAACAGCTTATTCGCACCAAAGAAGAA
GCCGATCACTCACTGCCGTGGATGCTCGCTGTAGTTCTGCTGGATGGTCAGCTCAATCCC
GAACAGTACGAACCATCACGCATCGTTGCTGATGATGTACAAACCTTGATGAAGAAAATC
GAAATCACACCGGCAGATGAATTCTCTGATCGCTTCCCTGACCACATGCCAGCTGATCTA
GAAGTCACACTAAACGATGGCTCGGTGTTCAAAGCTTCACAAGATAGCTACTTAGGCTTC
CACGACAATCCCCTAGATTGGGACAACGCGCGCAAGAAATTCGATGCCCTTGTCACACCA
TTCACCGGTGAAGAACTACGTGAAGAAATCGCCACGATCATTACGAGCTCGATAGCCGA
CAGGTTTCTGAACCTCACAGAAGCCCTGGCCAAAGTCTCCACCACCCGCGAGC

>RXA01077-downstream
TAAAACTTTTTGAAAGGAGCTCA

>RXA01089-upstream
AAAAATTTCGGTTCACAAAAGGTTTATCAGTCCAGCTTAAACCCATCGCACGGGCGGGAGA
ATTAGACTCAAGGCACATCACATTGAAGGAGCTTCTTATC

>RXA01089
TTGTCTCGATTTGCTGCCAACCTGTCATTGACTTTTACTGAGCTAGATTTCCCTGGATCGT
TTTGATGCCGCTTCGAAGCATGCTTTCAGTGCCGTGGAGTTTCAGTACCCTTACGATTTTC
GATGTTCAAGAGATTAAACAGCGTGCTGATTCCGCGAGGTCTGCCCATTGAAGTGTCAAT
GCCCCACCTGGGGATACTTTTGGTCTTGCGGCACTGGCTTCCCCTGAAGACTTTCAACAA
TCCATCGAGCAGGCCATCACGTACGCCACAGTGTTGAAGCCAAAGAAGATGCATGTCATG
GCTGGCATCGCGGACGTAACCTCAGAAACCACGGCGCGCTATGTGGAGAATATTCGCTGG
GCTGCGCAGCAACTAGACAAGCTCGACGTTGTGCTTGTATTGAACCAATTAATCACTAT
TCGGTTCCCGGTTATTTCCCTGCACACTTTAGAGCAGGCGTATTGGCTTATCGACAGCATT
GCCCCACCCAATGTGAAGATCTTATTCGATACTTTCCACCTTCAGCAGATTCATGGCAAT
CTCACC CGCCGCTGCGCGAGGTTTCATGGCGCAGGTCTTTTGGGACACGTGCAAGTGGCC
TCAGTTCTGATCGACACGAACCTGGCACTGGCGAAGTCAATGCGGCGTATATCTTCCAA
CTCCTAAGCGAAGTGGGATATGACGGTGTCTGCTGGCGAATACCACCCTGCTGGTGAA
ACTACAGCCGGTTTGGGCTGGTTGGAGCTC

>RXA01089-downstream
TAGATCGTAAGTGGTGTCTGCTACC

>RXA01093-upstream
CAGAGGCGTAGAACATTGTCTGTTTCACTCTGGGTTCGCAAGATTCATCGAGAATTAATG
GTAGTACCTGTGGCTTGAGGGGGAATGACGTACTAGGCTT

>RXA01093
ATGGGCGTGGATAGACGAACCTAAGATTGTATGTACCCTAGGCCAGCGGTGGCTAGTGCA
GATGGAATTCTGCGTTTGGTAGAAGACGGCATGGATGTTGCTCGCCTCAACTTCTCCCAT
GGTGACCAACCCAGATCATGAGCAAACTACAAGTGGGTCCGCGAGGCGGCGGAGAAGACT
GGCCGTGCAGTCGGTATTCTCGCAGACCTCCAAGGACCGAAGATCCGTCTTGGCCGTTTC
ACTGACGGCGCAACCGTGTGGGAAAACGGCGAGACCATTTCGGATCACCGTTGACGATGTA
GAGGGAACGCACGATCGTGTGTCCACCACCTACAAGAATCTGGCAAAAGACGCGAAGCCA
GGCGACCGCTGCTCGTTGATGACGGCAAGGTTGGCCTCGTCTGCGTTTCCGTGCAAGGT
AACGACGTCTGTGAGGTTGTTGAGGGCGGACCACTCTCCAACAACAAGGGTGTTCCT
CTGCCAGGTATGGATATTCCGTACCTGCACTGTCCGAAAAGGATATCCGTGACCTGCGC
TTCCGCTGAAGCTCGGCGTGACTTTATTGCACTGTCTTCGTACGTTCCCGACGAGAT
GCTGAACTCGTTCACAAGATCATGGACGAAGAAGGTGCTCGTGTTCCTGTGATCGCCAAG
CTGGAAGGACGAGAGGCTGTACCTCCCTCGAGCCAATCGTGTGGCATTTCGACGCCGTC
ATGGTTGCTCGTGGTGACCTCGGCGTTGAGGTTCTCTGGAGGAGGTTCCACTGGTTTCAG
AAGCGCGCAATCCAGATTGCCCGTGAGAACGCAAGCCAGTTATCGTGGCAACCCAGATG
CTGGATTCCATGATTGAGAACTCCCGCCCAACCCGTGCGGAAGCTTCTGACGTGGCAAAC
GCTGTGCTCGATGGCGCAGATGCTGTCTGCTTTCTGGTGAAACTTCAGTGGGCAAAGAT
CCGCACAACGTTGTGCGCACCATGTCTCGCATTGTTGCTTCGCTGAAACCGACGGTCCG

GTCCCAGACCTGACCCACATCCCTCGCACTAAGCGTGGCGTTATTTCTACTCTGCACGT
GATATCGCCGAGCGCCTCAACGCTCGTGCATTGGTTGCGTTCACCACCTCTGGTGATACC
GCAAAGCGTGTGGCTCGTCTGCACAGCCACCTGCCACTGCTCGTGTTCCTCCAAATGAG
GCAGTTCGCTCTGAGCTGGCGCTGACCTGGGGTGCAACCACCTTCCTGTGTCCACCTGTC
AGCGATACCGATGACATGATGCGCGAAGTCGACCGTGCTCTTTAGCAATGCCTGAGTAC
AACAAGGGTGACATGATGGTTGTTGTTGCAGGTTCCCTCCTGGTGTTACCGGTAACACC
AACATGATTACGTCCACCTTCTTGGTGACGACACAAGGATTGCAAAGCTC

>RXA01093-downstream
TAATCGCTTAAATCTTTCAAAAA

>RXA01099-upstream
GGATGAGGGCATTGATTCCGTCATCATTGGCAAGGCACCTTATGAGCACAAGTTCACCCT
CGAAGAGGCTTTGGCTGCAGTAGAAAAGCTCGGTTAATAC

>RXA01099
ATGGATGCTCGTGGGATGTTGGCCATTGCGGAGGCCGTTGTAGATGATGCCGAAGCCCTC
TTCATGCAGGGCTTCGGAGCTGCACCTGCCCATATGAAATCCCCGGGGGATTTTGCCACG
GAAGTGGATATGGCCATCGAATCCCATATGCGTTTCGATGCTGAACATGATGACAGGCATT
GCTGTATCGGTGAAGAAGGTGGCGGTGCGACCTCCGGCAGCGCTGGGTGATTGATCCC
ATCGACGGCACCGCCAACTTCGCGGCGTCCAACCCGATGAGCGCGATCCTGGTGTCTTTG
CTTGTGACGACGACCGCCGCTCCTGGGTATTACCTCCATGCCCATGCTGGGTAAACGCCTC
ACCGCTTTTGAAGGTTACCGCTGATGATCAACGGTGAACCTCAGGAACCATTGCAAGAA
CAATCCAGTTTGGTATCCACATTGGTTTTAGTTCCATGGCCTCCCCGCGCAATACAGCG
TTTCTGTGGAGTTGCGTCGGGATCTTCTGACCGAGCTCACGGAATCGTATCTTCGTCCC
CGCATTACAGGTTTCGGTGGGTGTTGATCTCGCGTTCACTGCGCAGGGCATTTTTGGAGCA
TGGCTATCGTTTAGTCCTCATGTTTGGGACAATTCCGCAGGCGTGATGTTGATGCGCGCT
GCTGGTGCACAAGTTACTGACACCGAAGGCCATCCGTGGGCACCAAGGTAGGGGAGTCGTG
GCCGGAACAAAAGGGCTCACGATGTGCTGTTAAGTAAGATTGAAAAAGTTCCGGTTGATG
CATGCAGATGCAGGTAATGACCAGTCGTTAAATGAGGAGTACAAG

>RXA01099-downstream
TAAAATGGGCGTGGCAATTCGAG

>RXA01111-upstream
AGAAAACCTGCCGATGCAAACCTTTGAGGAGAGATTCAATCAAGGAATAGAAATCATTCT
GGTGGGTCTAGACGCGCTTGGGCATATAAGATGACGTTCC

>RXA01111
ATGACATCAACGATTGAGCACTCGTACCAAGTTTGGCCTGGACATGCTTATCCTCTGGGT
TCAACCTATGACGGTGCTGGAACGAACCTTCGCACTCTTCTCCGACGTTGCAGAGCGTGTT
GAGCTGTGTCTATTAGATGCAGATAACAACGAGACTCGAATTCCACTCGAAGAGCGCGAT
GCCACATTTGGCATTGTACCTTCCTGGCGTTCAACCTGGACAGCGCTACGGATTCCGA
GTTTATGGCCCGTGGAACCCAGATGAGGGTAAGCGGTGCGACGCGAACAACCTTCTAGTT
GATCCCTATGCTCGTGCTTTCGATGGAGATTTTATGGACATCCGTCACCTATTTCTTAC
GACATACCAATCCAAATGACCCCAACGGTCGCAATACCGAAGACAGCATTGATCACACA
ATGAAGTCTGTGCTGGTGAACCCATTC

>RXA01130
GTTGGTGCCCTGACTGGTCTTGAGCGCGTTGAGAAGATCACCCGCATCAATGGCCGTGGC
CTGGATCTGCGCGCAGAGGGTCTGAACCTCTTCCTGCAGTACACTGACGCTCCTGGTGCA
CTGGGTACCGTTGGTACCAAGCTGGGTGCTGCTGGCATCAACATCGAGGCTGCTGCGTTG
ACTCAGGCTGAGAAGGGTGACGGCGCTGTCCTGATCCTGCGTGTTGAGTCCGCTGTCTCT
GAAGAGCTGGAAGCTGAAATCAACGCTGAGTTGGGTGCTACTTCTTCCAGGTTGATCTT
GAC

>RXA01130-downstream
TAATTAGAGATCCATTGCTTGA

>RXA01133-upstream
TGTTTCTAGTCGCACGCCAAAACCCGGCGTGGACACGTCTGCAGCCGACGCGGTCGTGCC

TGTTGTAGACGGACATTCCCTAGTTTTTCCAGGAGTAACTT

>RXA01133

GTGAGCCAGAATGGCCGTCCGGTAGTCCTCATCGCCGATAAGCTTGCGCAGTCCACTGTT
GACGCGCTTGGAGATGCAGTAGAAGTCCGTTGGGTTGACGGACCTAACCGCCAGAACTG
CTTGATGCAGTTAAGGAAGCGGACGCACTGCTCGTGCGTTCTGCTACCACTGTGCGATGCT
GAAGTCATCGCCGCTGCCCTAACTTGAAGATCGTCGGTCGTGCCGGCGTGGGCTTGGAC
AACGTTGACATCCCTGCTGCCACTGAAGCTGGCGTCATGGTTGCTAACGCACCGACCTCT
AATATTCACTCCGCTTGTGAGCACGCAATTTCTTTGCTGCTGTCTACTGCTCGCCAGATC
CTGCTGCTGATGCGACGCTGCGTGAGGGCGAGTGGAAGCGGTCTTCTTTCAACGGTGTGG
AAATTTTCGGAATACTGTCGGTATCGTCGGTTTTGGCCACATTGGTCAGTTGTTTGCTC
AGCGTCTTGTGCGTTTGTGAGACCACCATTTGTTGCTTACGATCCTTACGCTAACCTGCTT
CGTGCGGGT

>RXA01193-upstream
CACCAGGAGTCGGT

>RXA01193

ATGCGCGTGGCTCTGTCCGGCCTGACCATGGCGGAGTACTTCCGCGATGTTTCAAGAACAG
GACGTGCTGCTGTTTCATCGACAACATCTTCCGTTTACCCAGGCAGGTTCTGAGGTTTCC
ACCCTTCTGGGTCGTATGCCTTCCGCGCTGGGTTACCAGCCAACCCTGGCTGACGAGATG
GGTGTCTCTCAGGAGCGCATTACCTCCACCAAGGGCCGTTTCGATTACCTCTCTGCAGGCC
GTTTACGTTTCTGCGGATGACTACACCGACCCGGCTCCAGCGACCACTTCGCTCACTTG
GATGCAACCAACCGAGCTTGACCGCTCCATTGCTTCCAAGGGTATTTACCCAGCAGTGAAC
CCACTGACCTCCACCTCTCGTATTCTCGAGCCAGCAATCGTTGGTGAGCGTCACTACGAG
GTTTCTCAGCGTGTCATCGGCATTCTGCAGAAGAACAAGGAACCTCAGGACATCATCGCC
ATCCTTGGTATGGACGAGCTTTCTGAAGAGGACAAGATCACCGTTGCACGTGCGCGTCGC
ATCGAGCGCTTCTGGGTCAGAACTTCTTCGTTGCAGAGAAGTTTACCGGTCTTCTCGGC
TCTTACGTGCCACTGACCGACACCGTCGACGCTTTTCGAGCGTATTTGCAACGGCGACTTC
GACCACTACCCAGAGCAGGCTTTCAACGGCCTCGGTGGTTTGGACGATGTGAAGCTGCA
TACAAGAAGCTGACCGGAAAG

>RXA01193-downstream
TAAGGTAGAGACACATGGCTGAA

>RXA01194-upstream

ACTTCGACCACTACCCAGAGCAGGCTTTCAACGGCCTCGGTGGTTTGGACGATGTGGAAG
CTGCATACAAGAAGCTGACCGGAAAGTAAGGTAGAGACAC

>RXA01194

ATGGCTGAAATCACCGTTGAACTGGTGTCTGTAGAGCGCATGCTGTGGGCCGGCCAGGCC
TCCATCGTGAATGCACAGACCACCGAGGGTGAGATCGGCGTGCTGCCCGATCACGAGCCT
CTTCTCGGCCAATTGGTTGAGAACGGTGTCGTGACCATCCAGCCGATCGACGGCGAAAAG
CTTATCGCCGGCGTTTCGGATGGATTCTCTCCGTATCTAAGGAAAAGGTGACGATCCTC
GCGGACTTCGCCGCTCTGGGCGAATGAGGTTGATACCGCATCCGCCGAGGCTGACCTTAAT
TCGGACGACGAGCTGGCCAAGGCACACGCCGAGGCTGGGCTGCGCGCGGTCCGCCGACG
AGCGAAGGTCTC

>RXA01194-downstream
TAAACCTCCGTTTAGCTGAAGTA

>RXA01200

GGCTGTCTTCGGTGGAAGAGTGAGCCATCTGTTCTCGAAGTCTCAAGGACGCCGACAGAG
CAGACCTGGTCCACTCCACGCGAGTTCCGCGCTGGACTAGTCCAACCTTGCCGCTCGCGCC
CTTCTTCGCTCTGCGGAGAAACAGGGTCAGCTTGGTCAGGTGGAAGATGAACTGTTCCGA
CTCAGCCGAATCCTGGATCGCGAAAGCAAGCTGACTCAGCTTCTTTCAGATCGCACTCAG
GAAATTGGCGGTGACGTGACCTCCTGGCTAAGGTGCTCTACGGCAAGGTAAGTGTGTT
ACCGAAGCCCTCGCACTGCAGGCTATTGGTGCGCCCTGAGCACAACCAATTGACGATATC
GCAGCTTTGGCTGGCGCTGTAGCAGAGCTACAGGGTCGTTCCGTTGCACATGTGCTTACC
GCAGTTGAACTCAACGAGGGACAGCAACAAGCGCTAGCTGAAAAGCTGGGACGTATTTAT
GGTGTGCGATGAGCATCCACTCCGAGGTTGATACAGCCTCCTCGGTGGAATGATCATC

CGCGTCGGAGACGAAGTAATTGACGGCAGCACCTCGGGCAAACCTCGAGCGTCTGCGGGCA
AGCTTCGCA

>RXA01200-downstream
TAAAGACACGACGAATTAGACAA

>RXA01201-upstream
TCGGGCAAACCTCGAGCGTCTGCGGGCAAGCTTCGCATAAAGACACGACGAATTAGACAAC
ATTAGTAATGCTGGAAGAAACAACCGAGAGCAGGAAGAAC

>RXA01201
ATGGCGGAGCTGACGATCTCCTCCGATGAGATCCGTAGCGCGATTGCGAACTACACCTCG
AGCTACTCCGCGGAGGCCCTCCCGTGAGGAGGTGCGCGTGGTTATTTTCGGCCGCTGACGGT
ATCGCCAGGTTTCGGGCCCTCCCGTCAGTAATGGCGAATGAGCTCCTCGAATTCCCGGGC
GGCGTCATCGGCGTCGCACAGAACCTTGAAGCTGACCGAGTCGGCGTCGTGGTCTCGGGT
AACTACGAGCTACTTAAAGAAGGCGACCAAGTTTCGTGCTACTGGAGACGTTCTGTCTATC
CCAGTCGGCGAGGCATTTCCTTGGCCGCGTTATCAACCCCTTGGCCAGCCAATTGACGGC
CTGGGCGAAATTGCATCCGAAGAGGACCGCGTCTCGAGCTTCAGGCACCAACCGTGCTT
GAGCGCCAGCCTGTGCGAGGAGCCTTTGGCAACCGGCATCAAGGCTATCGATGCAATGACC
CCAATCGGCCGCGGTGACGCTCAGCTGATCATTGGTGACCGTAAGACTGGCAAGACCGCA
GTCTGTGTCGATACCATCCTTAACCAGAAGGCCAACTGGGAGACCGGCGACAAGACCAAG
CAGGTTTCGCTGCATCTACGTGCGAATCGGTGAGAAGGGCTCCACCATTCGAGCCCTGCGT
AAGACCCTCGAGGAGCAGGGCGCTCTCGAGTACACCACCATCGTGGCTGCACCCGCTTCC
GATGCTGCAGGCTTCAAGTGGCTTGACCATTCGCTGGCGCTGCTCTCGCCAGCACTGG
ATGTACCAGGGCAACCACGTCCTGGTTCATCTACGATGATCTGACCAAGCAGGCTGAGGCA
TACCGTGCTATCTCCCTGCTGCTGCGTCGCCCACCGGGCCGCGAAGCATAACCCAGGTGAC
GTCTTCTACCTGCACTCCCGTCTGCTGGAGCGCGCTGCGAAGCTGTCCGATGAAC TAGGC
GCAGGTTCTATTACAGCACTGCCAATCATTGAGACCAAGGCTAATGACGTTTCCGCCTTC
ATTCCTACCAACGTGATTTCATCACCGACGGTCAGGTATTCTTGAGTCCGACCTGTTC
AACCGTGGCGTTTCGCCGCGATCAACGTCGGTGTATCCGTCTCCGTGTCGGTGGCGCA
GCTCAGACCAAGGGTATGAAGAAGGTGCGCGTTCTCTCCGTCTGGATCTGGCTGCATTC
CGCGACCTGGAAGCATTTCGTACCTTCGCATCTGACTTGGATGCTGCATCCAAGTCTCAG
CTTGAGCGTGGCCAGCGCCTCGTTTCAGCTGTTGATTTCAGTCTGAGAACGCACCTCAGGCT
GTTGAGTACCAGATCATTTCTCTCTGGCTTGACGGCGAAGGCGCATTCGACAACGTTCTCT
GTTGAAGATGTTTCGTCGCTTCGAGTCCGAACTGCACGAGTACTTAGGCTCCAACGCTGCA
CAGGTCTACGAGCAGATCGCTGGTGGAGCTCAGCTTTCCGACGAGTCCAAGGAAACCTTG
CTCAAGGCAACCGAAGATTTCAAGAGCGCTTTCCAGACCACCGATGGCACCCCTGTATC
AACGAGCCTGAGGTTGAAGCACTCGATGCAGGCCAGGTCAAGAAAGACCAGCTCACCGTT
TCCCGCAAGGTGAGCAAGAAG

>RXA01201-downstream
TAAGGCAGCGAGCCTACACTAAA

>RXA01202-upstream
AGAAAGACCAGCTCACCGTTTCCCGCAAGGTGAGCAAGAAGTAAGGCAGCGAGCCTACAC
TAAATGACTGTCCAAGCAACTGAAGGGAGGCGTGTGAACC

>RXA01202
ATGGCAACAATTCGTGAATTGCGTGACCGAATTCGTTTCGGTTAACTCAACCAAGAAGATC
ACCAAGGCTCAAGAGCTCATCGCCACCTCTCGCATCACCAAGGCACAGGGTCGCGTCGCG
GCAGCTGCGCCGTACGCCGAGGAAATCCAGCGCGTGTGGAGCGCCTCGCGTCGGCAAGC
TCCCTAGACCACCAATGCTGCGTGAGCGTGAAGGCGGCAAGCGAGCCGCCGTGCTCGTG
GTTACTTCTGACCGCGGCATGGCTGGTGGCTACAACCACAACGTTCTGAAAAAGGCGAGC
GAGCTGGAAAAGCTTCTTGTGTAAGTGGATACGAAGTGGTTTCGTTATGTCACCGGCAAA
AAGGGCGTCGACTACTACAAGTTCCGCGCTGAAGATGTGGCTGGCACCTGGACTGGATTC
TCACAGGATCCAGACTGGGCAGCTACCCACAACGTGCGCCGTACCTCATTGATGGTTTC
ACCGCCAGCTCTGAAGGTGAAGCTGCATGGCGCGAGGGACTGAACCTACCAGAAGGCCAG
GATATCCAGGGCTTCGACCAGGTTACGTTGGTCTACACCGAGTTTCATCTCCATGCTGACT
CAAAACCCAGTAGTGACCAACTGCTGCCTGTTGAGCCAGTCATCGAAGATGAAATTTTC
GAAAAAGGCGAGGATCTGCTGTCTCTTCCGGCGAAGTCGAACCCGACTACGAGTTCGAG

CCGGATGCAGACACTCTGCTTGAGGCACTGCTTCCGCAGTACGTCTCTCGTAGGCTGTTT
TCCATCTTCTTGAGGCTGCAGCTGCAGAGTCCGCTTCACGTGCAAACGCGATGAAGTCT
GCGACTGACAACGCTACGGAACCTGGTCAAGGACCTGTCCCGTGTGGCCAACCAGGCACGT
CAGGCACAGATCACCCAGGAAATCACAGAGATTGTTGGTGGCGCAGGCGCGCTCGCCGAC
AGCGGAGAAAGTGAC

>RXA01202-downstream
TAATTATGACTACAGCTCTTGAA

>RXA01203-upstream
GTGTGGCCAACCAGGCACGTACGGCACAGATCACCCAGGAAATCACAGAGATTGTTGGTG
GCGCAGGCGCGCTCGCCGACAGCGGAGAAAGTACTAATT

>RXA01203
ATGACTACAGCTCTTGAAGAGCAGAACGCACAGCAGGCAGCCACTGCCGGCCGTGTCGTG
CGTGTCTATTGGTGGGTGCTGACGTGGAGTTTCCCCGCGGCGAGCTGCCAGCACTGTAC
AACGCACCTACTGTAGAGGTAACCCCTGAATCAGTTAAGAAGACCGTTGTTCTCGAGGTT
GCTCAGCACCTCGGCGACAACCTCATCCGCACCATCGCTATGGCACCAACCGACGGACTT
GTCCGCGGTGCTGCTGTAACCGATACTGCACGCCCAATTTCCGTACCAGTGGGCGATGTT
GTTAAGGGCCACGTATTCAACGCTTTGGGCGACTGCCTAGACGACGTTTCCCTGAACAAC
AACCCAGAGATCGAGCGTTGGGGCATCCACCGCGAGCCACCATCATTCGATCAGCTTGAG
GGTAAGACCGAGATCCTGGAAACAGGCATCAAGGTTATCGACCTTCTCACCCCTTACGTT
AAGGGTGGAAAGATCGGCCTCTTCGGTGGTGCAGGTGTGGGTAAGACCGTTCTTATCCAG
GAAATGATCACCCGTATTGCACGTGAGTTCTCCGGTACTTCCGTGTTCCGAGGTGTTGGT
AAGCGTACCCGTGAGGGCACCGACCTCTTCCTCGAAATG

>RXA01204-upstream
TTACAGCGAGTTTTTCAGACGTCCATCGCACCCGTGCACAACAACATTTTCAGGTGCACGGC
CCGAACACGGGAGAGAACGCTGAGCGTTACAACACTGTCC

>RXA01204
ATGAAGGGCGAATTCCACGCCCCGATTGAGACAAAGAATTTTCCCCGGGGCACGTAACC
GATAGTGGTGAAGTCGTGAACATGCTGTTACCGATTTCGCTAATGGTTGGTTTCGAATG
AACGCATCGTATTGATCCGTCTTCTTATGACGGCAGTCGTTGTGGTCTTCTTCCTTTGG
GCTATGCGCAAGCCAAAGCTTGTTCGCATGGCGTCCAGAATTTTGCAGAGTACGCACTC
GATTTGCTTGGTATTACATCGCTGAAGACATCCTCGAAAGAAGAAAGGTCGTGCGTTTC
CTGCCGATCCTGGCCACCATCTTCTTCGCGGCTCTGTTGATGAACCTTGCAACGATCATC
CCGGGACTAAACATCTCTCCAACCTCACGTATTGCATTCCCAATCGTGATGGCGGTAGCT
GGTTACATCGCGTTTATCTACGCAGGCTCTAAGCGTTACGGATTCTTCAAATATGTGAAG
TCTTCTGTTGTGATTCCGAACATTCCACCAGCACTTACGCTCTTGGTGGTTCCAATTGAG
TTCTTCTCTACATTCATCTTGAGGCCAGTCACCCTGGCACTGCGTTTGATGGCCAACCTC
CTTGCTGGCCACATCATCTTGTTCTGCTTTTCTTCGCAACGAACCTTCTTCTTCTCCAG
TTCAACGGATGGACAGCAATGTCCGGCGTAACCATCTTGATGGCAGTACTCTTACGGTT
TACGAGATCATTGTTATCTTCTGCAGGCATACATCTTCGCT

>RXA01216
ACCGACCACACTCTGTCTGCACTGCTGGATGCACACGTGGAAGTTCCAACCGCTGTCACC
GTGTTGACCATGCGTCTGGATGACCCACCGGTACGGCCGCATCGTGCGCAACGAAGAA
GGCGAAGTCACCGCCATCGTTGAGCAAAAAGATGCTTCAGCAGAAGTCCAAGCCATCGAT
GAGGTCAACTCCGGTGTCTTTGCTTTTCGACGCCGCCATCTTGGCTTCCGCACTGGCTGAA
CTGAAGTCCGACAACGCTCAGGGCGAGCTGTACCTGACCGACGTTTGGGCATTGCTCGT
GGCGAGGGCCACCCAGTGCGCGCCACACCGCCGCGATGCTGTAACCTCGCCGCGCTC
AACGATCGTGTGCAGCTCGCAGAAGCCGGCGCCGAACCTAAACCGTCGCACCGTCATCGCC
GCTATGCGTGGTGGCGCAACCATCGTTGATCCAGCAACCACCTGGATCGATGTGGAGGTT
TCTATCGGACGCGACGTGATCATCCACCCTGGCACCCAGCTCAAGGGCGAACTGTCATC
GGAGACCGCGTTGAAGTTGGTCCAGACACCACCTTGACCAACATGACCATCGGCGACGGC
GCATCCGTAATCCGCACCCACGGTTTCGACTCCACCATCGGTGAAAACGCCACCGTTGGC
CCCTTACCTACATCCGCCAGGAACCACTGGGACCAGAAGGCAAGCTCGGTGGCTTC
GTAGAAACCAAGAAGGCCACAATCGGCCGTGGCTCCAAGGTCCACACCTCACCTATGTC

GGCGACGCCACCATCGGCGAGGAATCCAACATCGGAGCCTCCTCTGTCTTCGTGAACTAC
 GACGGTGAAAACAAGCACCACACCACCATCGGCAGCCACGTTTCGCACTGGTTCTGACACC
 ATGTTTTATCGCTCCAGTGACCGTGGGTGACGGAGCGTATTCCGGAGCCGGTACAGTAATT
 AAAGACGATGTTCCGCCAGGAGCCCTTGCCGTGTCCGGCGGACGCCAACGAAACATCGAA
 GGCTGGGTGCAAAAGAAGCGCCCTGGAACCGCTGCAGCACAAGCCGAGAACCCGCCCAA
 AACGTCCACAACCAGGAAGGC

>RXA01216-downstream
 TAAGCAGGATCCTCATGACTGCT

>RXA01225-upstream
 TTTGGGCTAATGTTGGGGGAGTGCTTTCAACTATCCACGAGAGCTGCCAGTGATAAAC
 CCCGGGTAAACCCACGCCTAAGTCAGTGAAGGACTTTTT

>RXA01225
 ATGACGCACAACCACAAGGACTGGAACGATCGCATTGCAGTTGCGGAGGAAATGGTGCCG
 TTGATCGGGCGCCTGCACCGCAACAACAGTGGTGGTTTCCGTATTCGGTCGTCTCCTT
 GTGAATGTCTCAGACATCGATATCATCAAGTCTACCGCTACGCCCCCACATCATATCC
 AAGGAACTTCCACTGGAAAGCTCCTTGATATTTTGC GCGAACTGGTAGATATGAACCTT
 GGTACCGCATCGATCGACCTGGGACAGCTGGCCTACAGCTTCGAAGAATCCGAAAGCACC
 GACCTGCGTGCCTTCTCGGAGGACGCTCTCGCGCCGGTCATTGGTGCGGAAACCGACATC
 AACCCAACTGATATCGTGCTGTACGGTTTCGGCCGCATCGGTGCGCTGCTGGCCCGCATC
 CTGGTTTCCCGCGAGGCACTGTATGACGGTGCTCGTCTGCGCGCCATCGTGGTCCGCAA
 AATGGTGAAGAAGACCTGGTCAAGCGCGCATCCTTGCTGCGTGTGATTCTGTCCACGGT
 GGATTTCGATGGCACCATCACCACCGATTATGACAACAACATCATCTGGGCCAACGGCACC
 CCAATCAAGGTCTACTCCAATGACCCAGCCACCATTGATTACACCGAATACGGCATC
 AATGACGCCGTCGTGGTAGACAACACCGGCCGCTGGCGTGACCGCGAAGGCCTGTCCCAG
 CACCTCAAGTCCAAGGGCGTTGCCAAGGTTGTACTACCGCGCCGGGCAAGGGCGATCTG
 AAGAACATCGTGACGGCATCAACCACACCGACATCACCGCAGATGATCAGATCGTTTCC
 GCAGCATCATGCACCACCAATGCCATTACCCAGTGCTCAAGGTGATCAATGATCGCTAC
 GCGTGGAATTTCGGCCACGTAGAAACCGTTCACTCCTTCACCAATGACCAGAACCTGATC
 GACAACCTCCACAAGGGTTCTCGCCGTGGTTCGCGCAGCAGGTCTGAATATGGTTCTCACC
 GAAACCGGCGCTGCAAAGGCTGTATCCAAGGCGCTTCCAGAGCTGGAAGGCAAGCTCACC
 GGCAATGCCATCCGCGTTCTTACCCCTGACGTGTCCATGGCTGTGCTCAACTTGACCCTG
 AACACGGAGGTGGACCGCGATGAGGTCAACGAGTTCTCCGCGGTGTGTCCCTGCACCT
 GACTTGCGCCAGCAAATCGACTGGATCCGTTCCCGAGAGGTTGTTTCCACTGACTTCGTG
 GGCACCAACCCACGCGGGCATCGTTGATGGTCTAGCCACCATCGCAACCGGTGCGCACCTG
 GTGCTTTACGTGTGGTACGACAACGAGTTCGGCTACTCCAACAGGTCAATTCGCATCGTC
 GAGGAGATCGCCGGCGTGCGTCTCGCGTGTACCCGGAGCGCAGGCAGCCAGCCGCTACTA

>RXA01225-downstream
 TAGGTTATCCAAGCCTAATACAC

>RXA01227-upstream
 GGATAATCGAAAATATGTGCCCTTGGTGAAGGGTCGGGGAGCTAATAGGATGACAGTGA
 ACCTATTTTCCACGTCTTTATCCGTAGTATTGGAGATCCG

>RXA01227
 ATGACCTACACAATCGCCCAGCCCTGCGTTGATGTCCTGGATCGAGCCTGCGTCGAGGAA
 TGTCCCGTGGACTGCATCTACGAGGGCAAACGGATGCTCTACATCCACCCCGATGAGTGC
 GTCGACTGCGGTGCCTGCGAGCCCGTCTGCCCGGTTGAAGCCATCTTCTACGAAGATGAT
 GTTCCCCACGAATGGTGGGACTACACCGGCGCTAACGCCGCCTTTTTCGACGACCTCGGT
 TCGCCAGGCGGTGCCGCCAGCCTGGGTCCGCAGGACTTCGACGCCAGCTCGTCGCGGTG
 CTGCCGCCACAGAACCAGAAC

>RXA01227-downstream
 TAGGACCTGATATCGGCCCTAAA

>RXA01242-upstream
 CGCCGGCAACCAATGAGGCTTTTGGGCGTTGGACAGTGAGACAATGGGTAAGAAATTCG
 GACATATTTAGTAAATTGGCTTTTGGCTTTAAGGAGTGAC

>RXA01242

ATGTACGCAGAGGAGCGCCGTCGACAGATTGCCTCATTAACGGCAGTTGAGGGACGTGTA
 AATGTACAGAATTAGCGGGCCGATTTCGATGTCACTGCAGAGACGATTCGACGAGACCTT
 GCGGTGCTAGACCGCGAGGGAATTGTTACCCGCGTTCACGGTGGCGCAGTAGCCACCCAA
 TCTTTCCAAACCACAGAGTTGAGCTTGGATACTCGTTTCAGGTCTGCATCGTCAGCAAAG
 TACTCCATTGCCAAGGCAGCGATGCAGTTCCTGCCCCGCTGAGCATGGCGGACTGTTCTC
 GATGCGGGAACACTACTGTTACTGCTTTGGCCGATCTCATTCTGAGCATCCTAGCTCCAAG
 CAGTGGTTCGATCGTGACCAACTGCCTCCCCATCGCACTTAATCTGGCCAACGCCGGGCTT
 GATGATGTCCAGCTGCTTGGAGGAAGCGTTTCGCGCGATCACCCAGGCTGTTGTGGGTGAC
 ACTGCGCTTCGTACTCTCGCGCTGATGCGTGCGGATGTAGTGTTCATCGGCACCAACGCG
 TTGACGTTGGATCACGGATTGTCTACGGCCGATTCCCAAGAGGCTGCCATGAAATCTGCG
 ATGATCACCAACGCCCAAGGTGGTGGTGTGTGTGACTCCACCAAGATGGGCACCGAC
 TACCTCGTGAGCTTTGGCGCAATCAGCGATATCGATGTGGTGGTCACCGATGCGGGTGCA
 CCAGCAAGTTTCGTTGAGCAGTTGCGAGAACGCGATGTAGAAGTTGTGATTGCAGAA

>RXA01242-downstream

TGATTCTTACAGTCACTGCAAGT

>RXA01243-upstream

GCGCAATCAGCGATATCGATGTGGTGGTCACCGATGCGGGTGCACCAGCAAGTTTCGTTG
 AGCAGTTGCGAGAACGCGATGTAGAAGTTGTGATTGCAGA

>RXA01243

ATGATTCTTACAGTCACTGCAAGTCCGTATCTGTTGAGCACCAATGAGCTTGACGGCACC
 ATCGAAATTGGCGAAGCAAAACAAATCCGGCAGGTTTCCACTGTTGCCGGTGGTTTTGGC
 ACCGGTGTGGCTGCCACCTTGTTTTATGGCGGCAATGAAACTTTTGCAGTTTTTCCCGCT
 CCAGAAATCTCTCATTACATGCGCCTGGTGACGTTTGCTGGGTGCTCATGAAATTATT
 CCGGTGGCAGGTCCCATCCCCATGCATTTGACCATGCGTGATGCAGAGGGCAATGAGACT
 AAGTTCAAAGACTCCCCATGCCTTTGGATGTGTCCCAGTTGGCAATTCTTCGTGATCTA
 GTGGTGCCTCGAGCCGAAGATGCCGCGTGGGTGTTGTTGGGTGGCAATTGCGCTCTATC
 GCGCCTGCTGCGTGGTTTTGTGGATGTGGTGAGATCACTTCGCTTGTAACACCCTCATGTG
 AAGGTAGCTATCGCAGCAACTGGTGCTGCGTTGCGTGCGGTTATTCGACAGCTTGCACT
 ACGTCCCCGGATGCGCTGATTGTGGCTGCGGAAGAAATCGAAATTGCCACTGGATTAGAA
 CCCAAAACCTTGAGAGGTCCATGGGTAGAGGGAGATCTCTCCCGACTGTGGCGGACGCG
 CGCGCTTTAATTGATAGCGGTGTCACCGAGGTGTTGGTTACCAACAAGCGGACGGAATCT
 TTGTATGTTTCCGAGTCTGAATCACTGTTAGCCAGCTACGACAGCACCCCTGGTAAGCAG
 GGCGTGAATTGGCGGGAATCTTTTACTGCAGGATTCTTGGCAGCATCCAATGATGGAAAA
 TCCACTGAGGACAGCGTGATCAACGCGGTTGCTTACGCCAACGCTGAAGGCAGTGAGTGG
 GACAACATACATTCCACACCCGATAAGCTTCGGGCGGAGCACGTGGTCATCAAATCGCTT

>RXA01243-downstream

TAGACCACGCAAAAAGCCTCAA

>RXA01259-upstream

AAGAGAATTATTTCTAAAATTCGGTATCGTCTAAGAAATGAGTTTGCCAATAGCTCAGCA
 TCAAAATGCTGTAAAACTGTCGTGGTACCAGCTGCAGGA

>RXA01259

ATGGGAACACGGTTCCCTTCCTGCAACGAAGACAATTCCAAAGGAGCTTCTTCCTGTAGTT
 GATACCCCGGGTATTGAACTTGTTGCCAAAGAGGCTGCTGATCTTGGTGCAACTCGGTTA
 GCAATTATCACTGCTCCGAACAAAGACGGAATTCTTAAACACTTCGAGGAGTTCCCTGAG
 CTTGAGGCAACTCTTGAGGCTCGCGGTAAGACTGATCAACTGAATAAAGTTTCGAGCAGCT
 CGAGAATTGATTGATAACAGTTCAGTGTTCAAGAAAAGCCATTGGGGCTTGGTACGCT
 GTTGGCCTTGCTGAGTCTGTGCTCGATGATGATGAAGATGTTGTGGCTGTCATGCTGCCA
 GACGATTTGGTGCTGCCATTTGGTGTGACCGAGAGAATGGCAGAAAGTTCGCGCTAAGTTT
 GCGGATCTGTTCTTGCAAGCAATTGAGGTGGCTGAAGATGAAGTCTCAAATTACGGAGTA
 TTTAAGCTCGGTGAACTCGATGCAGAGTCCGAAAGTGAAGGCATTAGGCGTGTTGTAGGA
 ATGGTTGAAAAGCCTGCGCCTGAAGATGCACCATCAAGGTTTGCCGCAACGGGCCGTTAT
 CTACTTGATCGAGCTATTTTTGATGCACTGCGTCAAGTTGAGCCTGGTGCTGGTGGAGAA
 CTGCAATTAACAGATGCCATCGCATTATTGATCGAAGAAGGCCATCCGGTACACATTGTG

GTTTCATGAAGGAAAAGCGCCATGACCTTGGTAATCCAGCTGGGTACATTCCCTGCTGTTGTG
TACTTCGGACTTCGTTCATGCAGAGTACGGTTCCAAGATTACCCGTGCGGTGAAGGAAATA
CTCGCTGAGTTTGAATCT

>RXA01259-downstream
TAAAAAGGAAACCGCCTTCCACA

>RXA01262-upstream
TATACTCGTCAAGGGCCTTCGATAAAACAAAGACAATTTTCCCCCGACGGGACAATCTGA
AAACTTGCTGTATCAATAAAACACGAAAAGGAATACTTTT

>RXA01262
ATGAAAATTGCCGTGCGAGGGCTCGGATATGTTGGGCTTTCAAATGCAGCTCTCCTCTCT
AAAAATCATAAAGTTGTTGCAGTTGACATTGATGAAGAACGAGTGAACTAGTTCAAGAA
TTTCGTTTCGCCAATTGTCGATAGCGATCTCGAAGAATATCTGTCCACTAAGCCTCAAAC
TTAACTGCCACAACGGACGCCGAAGCCGCTTACAAAGGCGCAGATTTTATTGTTATTGCA
ACGCCAACTAATTACGACCCAGAGTCAAACTTTTTTGATACTTCCAGCGTTGAGTCCGTA
ATTGAGATAGTCCTTAAGGTTTTCTCCTGGATCCACAATCGTAATTAAATCGACTATCCCT
GTTGGTTTTACATCGGAACCTACGCATTAAGCATCCAGAAGCTTCGATTATTTTTTACCT
GAGTTCCTGCGTGAAGGCCGAGCATTCTACGACAATCTCTACCCATCCAGAGTTGTCTGTT
GGTGATCGCAGTCTCTGGGGGAAGAATTTGCGACTCTGTTAGCTGAGGGGGCAAAGAA
AAGCCTCCGATTCTACTTACGGACTCAACTGAGGCAGAGGCGATTAAATTATTTTCTAAT
ACATATCTTGCAGTTCGAGTTGCTTTTTTCAACGAAGTGGATACTTATGCGTCTGTTTGA
AGCTTGGATACTAAGCAGATTATTGAAGGGGTAGGGCTCGATCCACGTATTGGATCTCAT
TACAATAATCCTTCATTTGGATATGGCGGATATTGTCTTCCGAAAGATACGAAACAGCTT
CTCGCCAACTATAAGGATGTCCCGCAGAATCTAATCTCTGCAGTAGTCCAAGCAAATAAG
ACTCGTAAGGACTTTATTGCAGAGGATATCCTCAGTAAATCACCTACTGTAGTTGGAATT
TACCGCCTTGTAATGAAGTCTGGATCAGATAAATTTGCTTCTTCTTCTATTCAAGGAGTC
ATGAAACGAATTAAGGCCAAGGGAATCGAAATTGTAGTATTTGAACCGAATCTCGGAGAA
GAACTTTCTACAATTCGAAGATCCTTAATGACATCGAAGAGTTTAAGGATTACTGCGAC
ATCATTATTGCAAAATCGTCCAACCGATGAGCTTTCTGATGTACCAGAAAAGTTTATACA
CGTGATATTTTCCAGCGTGAC

>RXA01262-downstream
TAAGTGGAAGAATCTTTTGTTG

>RXA01311-upstream
TCGTCTCCGCATGGGAACCGGCGAGAATGGAACCTTCGTCTGCCACGCAGAACCACTGT
TCTTCGAATCTGTCCCACTGCAGACAAGGAAGTACAAGTA

>RXA01311
ATGAAACTTACACTTGAGATCTGGCGTCAAGCAGGCCCAACTGCGGAAGGCAAGTTCGAA
ACCGTCCAGGTTGACGACGCCGTGCGCGAGATGTCCATCCTGGAGCTGCTTGACCACGTA
AACAACAAGTTCATCGAAGAAGGCAAAGAACCATTGCGGTTGCGCTCTGACTGCCGCGAA
GGCATTGTGTTGCTACCTGTGGTCTCCTCGTGAACGGTCGCCCTCACGGCGCCGACCAGAAC
AAGCCTGCCTGTGCGCAGCGCCTGGTCAGCTACAAGGAAGGCGACACCCTCAAGATCGAA
CCACTGCGTTCCGCCGCATACCCAGTGATCAAGGACATGGTCGTGACCGCTCCGCACTG
GACCGTGTCTGGAACAGGGTGGCTACGTGACCATCAACGCAGGTACCGCACCTGACGCT
GATACCCTCCACGTCAACCACGAAACCGCAGAACTCGCACTTGACCACGCAGCCTGCATC
GGCTGTGGCGCATGTGTTGCTGCCTGCCCTAACGGCGCAGCACACCTGTTACCGGCGCA
AAGCTTGTTACCTCTCCCTCCTCCCACTGGGTAAGGAAGAGCGCGGACTGCGTGCACGT
AAGATGGTTGATGAAATGGAACCAACTTCGGACACTGCTCCCTCTACGGCGAGTGCAGCA
GATGTCTGCCCCGAGGCATCCCACTGACCGCTGTGGCAGCTGTCACCAAGGAACGTGCG
CGTGACGCTTTCCGAGGCAAAGACGAC

>RXA01311-downstream
TAGTCTTTAATCCAAGTAAGTAC

>RXA01312
GAGTCGCTGCGTAACGACGGCCGCATCTGGTCCCCTAAGGAACCGAACGATAACCGCGAT

CCAAACACCATCCCTGAGGATGAGCGCGACTACTTCCTGGAGCGCCGCTACCCAGCATTC
GGTAACCTCGTCCCACGTGACGTTGCTTCCCGTGCGATCTCCCAGCAGATCAATGCTGGT
CTCGGTGTTGGACCTCTGAACAACGCTGCATACCTGGACTTCCGCGACGCCACCGAGCGC
CTCGGACAGGACACCATCCGCGAGCGTTACTCCAACCTCTTCACCATGTACGAAGAGGCA
ATTGGCGAGGACCCATACTCCAGCCCAATGCGTATTGCACCGACCTGCCACTTCACCATG
GGTGGCCTCTGGACTGACTTCAACGAAATGACGTCACTCCCAGGTCTGTTCTGCGCAGGC
GAAGCATCCTGGACCTACCACGGTGCAAACCGTCTGGGCGCAAACCTCCCTGCTCTCCGCT
TCCGTCGATGGCTGGTTCACCCCTGCCATTACCATCCCTAACTACCTCGGCCCATTTGCTT
GGCTCCGAGCGTCTGTCTCAGAGGATGCACCAGAAGCACAGGCAGCGATTGCGCGTGACAG
GCTCGCATTGACCGCCTCATGGGCAACCGCCAGAGTGGGTGCGGTGACAACGTTACGGA
CCTGAGTACTACCACCGCCAGCTTGGCGATATCCTGTACTTCTCCTGTGGCGTTTCCCGA
AACGTAGAAGACCTCCAGGATGGCATCAACAAGATCCGTGCCCTCCGCGATGACTTCTGG
AAGAACATGCGCATCACCGGCAGCACCGATGAGATGAACCAGGTTCTCGAATACGCAGCA
CGCGTAGCCGACTACATCGACCTCGGCGAACTCATGTGTGTGACGCCCTCGACCGCGAC
GAGTCTGTGGCGCTCACTTCCGCGACGACCACCTCTCCGAAGATGGCGAAGCACAACTG
GACGACCAAACTGGTGCTTCTGCTCTCCGCATGGGAACCGAGGCGAGAATGGAACCTTCGTC
TGCCACGCAGAACCACTGTTCTTCGAATCTGTCCCACTGCAGACAAGGAACATAAG

>RXA01312-downstream
TAATGAACTTACACTTGAGATC

>RXA01325-upstream
GCGCAGCGCTCGGACGATTACGAACCTCAGGAGAACTCGGGGTCATTCTGTTGCATTCTAC
CCTGGAAATTTTCCACACTAAGTCAGGTCTAAGTAGGGT

>RXA01325
ATGGATATGACGATTTCCCGCTCCACCATGGCCCAAATCCTTGACTACACCCTCCTCGGA
CCAGAAGTAACCAACTCCGAACCTGGCCGCATTTATAGATTCCGCAATTGAGCTGGGAGTC
GGCACGATCTGTGTCCCCAACAGCATGGTCAACCTAACTGCAAAAGCCCAAGAAGCTGGA
ATTTCGAGTGGCCACCGTCGCAGGATTCCCGCACGGCAAAACCCCGCGTTGGTGAAAGCC
GCCGAAGCGCGCCTTGCCGTACAGTCCGGAGCTTCCGAAGTAGATGTTGTTTTGGATATT
GCGGTAGTGAAAGAGGGAGATGCCAATAGGTTGCTGCAGGAAATTGTGGCAATCAGGGAG
GCTGTTCCATCTCCTGTGGTGCTGAAATTCATCCTCGAAACAGCTGTTGTGAGTGATGAA
GCAATTGTGACTGCAGTGAATGCGTTGATTGCTGCTGGTGCTGACTTCGCTAAAACTTCC
ACGGGATTCCACCCAGCGGGAGGGGCAACTGTTGAGGCTGTTTCGGGTGATGGCTTCGGCT
TCTCGGGGAAGGGTTGGAATTAAGGCTGCCGGTGGGGTGAAAACCTTGGGAAGATGCGGTG
GCGTTTGTGTAAGCAGGGGCTACTCGCATTGGAACCTCTAATGCGGGAGCCATTTTGGAG
GGTGCGCCGGAG

>RXA01325-downstream
TAGTTTGGCGTTCTAATCGGGAC

>RXA01332
GCAGCACGTGCCGCTGCAGCTGCAGAAGACGCGCCGGGTGCACAGGCCTTCACTCGCAT
GAAGATGCTATCGCAGCCGATGCTGTGACGCGAGTGCTGATCGCCGTACCAGGTCAGTTC
CATGAGCCAGTACTTGTCCCAGCACTAGAAGCAGGCCTTCCCATCCTGTGTGAAAAGCCA
CTGACCCCAAGATTCTGAATCCTCACTGCGCATCGTCGAGCTGGAGCAGAAGCTGGACAAG
CCACACATCCAGGTTGGTTTCATGCGCCGCTTCGACCCTGAGTACAACAACCTGCGCAAA
TTGGTGGAATCCGGCGAAGCTGGCGAACTGCTCATGCTCCGCGGCCTGCACCGCAACCCA
AGTGTGGTGAGAGCTACACCCAGTCCATGCTGATCACCGACTCCGTCGTCCACGAATTC
GATGTATCCCATGGCTCGCAGGCTCCCGAGTTGTCTCCGTTGAAGTGAAGTACCCAAAG
ACCTCCTCACTGGCGCACTCCGGCCTCAAGGAACCAATCCTGGTGATCATGGAGCTCGAA
AACGGCGTG

>RXA01350-upstream
TGCAGTATCGTCAAGATCACCCAAAACCTGGTGGCTGTTCTCTTTTAAGCGGGATAGCATG
GGTTCTTAGAGGACCCCTACAAGGATTGAGGATTGTTTA

>RXA01350
ATGAATTCCCCGAGAACGTCTCCACCAAGAAGGTCACCGTCACCGGCGCAGCTGGTCAA
ATCTCTTATTCACTGTTGTGGCGCATCGCCAACGGTGAAGTATTGCGCACCGACACCCCT

GTAGAACTGAAACTTCTGGAGATCCCTCAGGCTCTTGGCGGGGCAGAGGGTGTGGCTATG
GAACTTCTGGATTCTGCCTTCCCCCTCCTGCGAAACATCACCATCACCAGCGGATGCCAAT
GAGGCATTGACGCGCTAATGCGGCGTTTTTGGTGGTGGCGAAGCCTCGCGGAAAAGGC
GAAGAGCGCGCAGATTGCTGGCTAACAACGGCAAGATTTTCGGACCTCAAGGTAAAGCT
ATCAATGACAACGCCGAGATGACATTCGTGTCCTAGTTGTTGGAAACCCAGCGAACACC
AACGCGTTGATTGCTTCAGCTGCGGCCCCAGATGTTCCAGCATCCCGCTTCAACGCAATG
ATGCGCCTTGATCACAACCGTGCATCTCCAGCTGGCCACCAAGCTTGGCCGTGGATCT
GCGGAATTTAACAACATTGTGGTCTGGGGAATCACTCCGCAACCCAGTTCCAGACATC
ACCTACGCAACCGTTGGTGGAGAAAAGGTCACTGACCTGGTTGATCACGATTGGTATGTG
GAGGAGTTCAATCCTCGCGTGGCTAACCGTGGCGCTGAAATCATTGAGGTCCGTGGAAAG
TCTTCTGCAGCTTCTGCAGCATCCTCTGCGATTGATCACATGCGCGATTGGGTACAGGGC
ACCGAGGCGTGGTCTCTGCGCAATTCCTTCCACCGGTGCATACGGCATTCTGAGGGC
ATTTTTGTGGTCTGCCAACCGTATCCCGCAACGGTGAGTGGGAAATCGTTGAAGGCCTG
GAGATTTCCGATTTCCAGCGCGCCGCATCGACGCAATGCTCAGGAATTGCAGGCCGAG
CGCGAGGCAGTGCGCGACTTGCTC

>RXA01350-downstream
TAATCTTTAACGCATGACTTCGC

>RXA01365-upstream
CCTGATCAGGACGAATCATAAGGTTTGCTATTTCGGATTGGATCCTTTGGCAGGGGTAGGA
TTGCAAGCGTTATTTTGTTCCTAACCCCTTCGAGGATTT

>RXA01365
ATGCGTACCCGTGAATCTGTACAGCTGTAATTAAGGCGTATGACGTCCGTGGTGTGTT
GGTGTGATATTGATGCTGATTTCTGAGACTGGCGCTGCCTTTGGTTCGGCTCATG
CGTAGTGAGGGTGAAACCAACCGTTGCTATTGGCCATGACATGCGTGATTCCTCCCTGAA
TTGGCCAAGGCGTTTGCCGATGGCGTGAAGTGCACAGGGTTTGGATGTTGTTTCAATTTGGA
CTGACTTCTACTGATGAGCTGTACTTTGCGTCCGGAACCTTGAAGTGTGCTGGTGCATG
TTTACTGCGTGCATATAACCCCGCTGAGTACAACGGCATCAAGTTGTGCTGCGGGTGCT
CGTCCGGTTCGGTCAGGATTCTGGTTTGGCCAACATCATTGATGATCTGGTTGAGGGTGT
CCAGCGTTTGATGGTGAGTCAGGTTTCGGTTTCTGAGCAGGATTTGCTGAGCGCATATGCC
GAGTACCTCAATGAGCTTGTGATCTGAAGAACATCCGCGCGATGAAGTTGCTGTGGAT
GCGGCAACCGCATGGGTGGGTTCACTGTCCCTGAGGTATTCAAGGGTCTGCCACTTGAT
GTTGCGCCACTGTATTTTGAAGCTTGACGGCAATTTCCCCAACCATGAGGCCAATCCTCTG
GAGCCTGCCAACCTGGTTGATTTGCAGAAGTTTACCGTAGAGACCGGATCTGATATCGGT
TTGGCGTTTCGACGGCGATGCGGATCGTTGCTTCGTGGTTCGATGAGAAGGGCCAGCCAGTC
AGCCCTTCGGCGATCTGTGCGATCGTAGCGGAGCGTTACTTGGAGAAGCTTCCGGGTTCC
ACCATCATCCACAACCTGATTACCTCTAAGGCTGTGCCTGAGGTGATTGCTGAA

>RXA01369
AACGAACAGTGCCTCGGCGATGTCGGCGTTCTGGGTGCTCTGCTGTTGAACTTCTACAAA
CTTGCCCCAGGCGAAGCCCTCTACCTCGACGCGCAAACCTTACGCATACATCAGCGGC
CTCGGCGTAGAGATCATGGCGAACTCCGACAACGTGCTCCGCGGTGGACTGACATCCAAA
TACGTGACGTCCCGGAGCTTGTGCGCGTGTGGATTTCAACTCTTTGGAAAACGCTCGC
GTGGACGTTGAAGAAGACGGTGCAACGACCCACTACCCAGTTCCAATCAACGAATTCCAA
CTCGATCGCGTTGCAGTTCAAGGCGAAGCAGAAGCCAACACGATGGTCCCATGATTGTT
CTGTGCACCTCCGGAACCTGTTTCCTTGAAGCAGGGGAGAAGACCTCGAAGTAGCAGCA
GGTCACGCCGCATGGGTTCAGCAAACGACCCAACCATTCGATGCGTTCTGAGGACGCA
GAAGTATTCTCGCTAGGGTT

>RXA01369-downstream
TAGATCTTTTATGATTAAAAATCA

>RXA01373-upstream
CTGCGACGGACCTAGCAAAGGGGCGCTGACACAAGCACTGCGTTTGCTGGTGCAGCGGACA
GTCAGCCACGACCTATTCCATTGAAGAAAAGGACTTGTA

>RXA01373
ATGGAGCTATTGGAAGGCTCACTGCGCACCTACCCATGGGGTTCAAGAACACTGATCGCT

GATCTCAAAGGCGAAGAATCACCATCGTCTCGCCAGAGGCCGAAGTCTGGTTCGGTGCC
 CACCCAGGATCACCATCAACCATCGGTGGAAACGCACTCAACGAAGTCATCGCAGCGAAC
 CCCGAAGAAGCATTGGGCACGCGTGTGGCGAAGCGTTTGAAAATGAGCTTCCATTCCCTC
 CTCAAATCCTCGCAGCGGGAGCACCCCTATCACTGCAGGCCACCCATCGCTGGAACAG
 GCCCGTGAAGGATTCGCCCCGAAAACCTCAGCAGGAATTGACCTCGGCGCACCGAACCGC
 AACTACCGCGACCCAAACCACAAGCCAGAGCTGATCGTTGCTCTCACGGAATTCATCGCG
 ATGGCAGGCTTCCGCCCCTGCGGAACACCCTCACCATTTTCGACGCCCTCGCCTGCGAA
 CCCCTCGACCGCTACCGCAGCATGCTCACCCTCGACAACGAGGAAGAATCCCTCCGCGCA
 CTGTTTACCACCTGATCACCATCCCCATCGGTAAACGACACGAACCTCATCGATGCCCTC
 ATCAGCAACGCCCCACACCTACCTTGAGGCAAGCGATCGTGACGAGGACATCGCATTCTGTG
 CTCTCACACATCATCGAGCTCAACGAACAGTACCCCGGCGATGTCGGC

>RXA01377-upstream

TGAAATGGATTTGCTGCGGCCCGGAATTACCCTTTTCGCGGCCGTCATCAAATTTGTAC
 CCCCTTAAAGACACCCTAAACACGAGTGAAATAGGAACAC

>RXA01377

ATGACTTTAACTGACAACAGCAAAAACGTTGATGCTGTCTATCTTGGTTCGGTGGCAAAGGT
 ACCCGACTGCGCCCCCTGACCGTCAATACTCCAAAGCCAATGCTGCCAACTGCTGGCCAC
 CCATTCTTGACCCACCTTTTGGCCCGCATCAAGGCCGAGGCATCACACACGTCTGTCTG
 GGAACGTCAATTCAAAGCTGAAGTCTTCGAGGAATACTTCGGAGATGGCTCCGAAATGGGC
 TTGGAATTTGAATATGTCTGTCGAGGATCAGCCTTTGGGCACTGGTGGTGGCATCCGAAAC
 GTCTACGACAAGCTGCGTCAAGTACTGCGATTGTGTTCAACGGCGATGTGCTCTCCGGT
 GCGGATCTCAACAGCATTCTGGACACCCACCGCGAAAAGGACGCAGATCTGACCATGCAT
 CTCGTGCGCGTAGCTAACCCTCGTGCGTTTGGTTGCGTCCCCACCGATGAGGATGGTCTGC
 GTCAGCGAATTCCCTGAAAAGACCGAAGATCCACCAACCGATCAGATCAACGCCGGCTGC
 TACGTGTTCAAGAAGGAACCTCATCGAGCAGATCCCGGCAGGCCGAGCAGTTTCCGTCTGAG
 CGCGAAACCTTCCCTCAGCTGTTGGAAGAAGGCAAGCGAGTCTTCGGCCACGTCTGACGCT
 TCCTACTGGCGCGACATGGGCACCCCAAGCGACTTCGTCCGCGGCTCGGCTGACCTGGTC
 CGCGGCATTGCGTACTCCCATTTGCTCGAAGGCAAAACAGGAGAGTCGCTTGTCTGACGCC
 TCCGCCGGCGTTTCGCGACGGCGTCTCTGCTGCTCGGCGGAACCGTAGTCGGCCGCGGCACT
 GAGATCGGTGCCGGCTGCCGCGTTGACAACACTGTTATTTTCGACGGCGTCACCATTGAA
 CCAGGTGCGGTCATTGAAAATTCATCATTTTCTCGGGAGCACGCATCGGTGCTAATGCG
 CACATCTCCGGTTGCATCATTTGGCGAGGGCGCACAGGTTGGTGCTCGGTGTGAACCAAC
 GCAGGATGCGCGTCTTCCCAGGCGTTGTGATCCCAGACAGCGGAATTCGTTTTTCTGTCT
 GATCAG

>RXA01377-downstream

TAGGCATTTTTAGCCCTTTTGGA

>RXA01392-upstream

GTCTGCAATCACCCGAACATTTGTTCAATCGTTGATTTTCATTCCACTTCGTAATATTG
 TTGACATATCATCTAAATTTCCAAGAGAGGACACCACACA

>RXA01392

GTGGCTAACACGTCATCCGATTGGGCAGGCGCCCCACAAAATGCATCAGCAGACGGCGAG
 TTCGTTTCGCGATACCAACTACATCGATGACCGCATCGTCGACAGCTTCCAGCGGGATCC
 GAACCAATTGCTCAGGAAGATGGCACTTTCCATTGGCCTGTCTGAGGCTGGTCTGCTACCGT
 TTAGTCGCTGCCCCGCGCATGTCCATGGGCACACCGCACTGTTATCACCCGTCGTCTTCTC
 GGCCTGGAGAACGTGATCTCGCTTGGTCTGACCGGCCCGACTCACGACGTTCTGTTCTTGG
 ACTTTTCGATTTAGATCCAAACCATCTTGATCCCGTGTCTGAGATTCCTCGTCTACAGGAC
 GCGTATTTCAACCGCTTCCCCGATTACCCGCGCGGCATTACTGTCCCAGCGCTCGTGGAG
 GAATCGTCTAAGAAGGTCGTACCAACGATTACCCCTCCATCACCATCGATTTCAATCTT
 GAGTGGAAGCAGTTCCACCGTGAGGGTGCGCCTAACCTCTACCCCGCGAGCTGCGCGAG
 GAGATGGCGCCGGTGATGAAGCGCATCTTCACTGAGGTCAACAACGGCGTATACAGGACC
 GGCTTTTGCCGGTAGCCAGGAAGCGCACACAGGCGTACAAGCGGCTTTGGGTTGCGTTG
 GACTGGCTAGAAGATCGCTTATCGACGCGACGTTACCTCATGGGGGATCACATACCGAG
 GCGGATATCCGCCTTACCCAACCCTCGTGCGTTTCGATGCCGTCTACCACGGACACTTC
 AAGTGTGGCCGCAACAAGATCACCGAAATGCCGAATCTATGGGGCTACCTGCGGGATCTT
 TTCCAGACCCAGGCTTTGGCGACACCACCGATTTACCGGAAATCAAGCAGCACTACTAC
 ATCACCCACGCGGAGATTAACCCACCCGGATCGTTCCAGTCGGACCAGATCTGTCTGGT

TTTCGCGACACCACACGGCCGTGAAAAGCTCGGCGGATCCCCATTTGCTGAAGGTGTTACT
CTGCCTGGCCCAATTCTCGGGCGAAGAAGTGAAAAACCTGAACCTTTTCAGAAG

>RXA01392-downstream
TAACTAAGGCCGCAATCCCTCGA

>RXA01436-upstream
GCCTAAACAAACCAGTCAACGACCTTTCCCGTGGCGCAACAGTCCCTGACATCGTCAACA
CAGTAGCCATCACAGCAATTCAGGCAGGAGGACGCAGCTA

>RXA01436
ATGGCATTGGCACTTGTTTTGAACTCCGGTTCATCTTCCATCAAATTCAGCTGGTCAAC
CCCGAAAACCTCTGCCATCGACGAGCCATATGTTTCTGGTCTTGTGGAGCAGATTGGTGAG
CCAAACGGCCGCATCGTACTCAAAATAGAGGGTGAAAAATATACCCTAGAGACACCCATC
GCAGATCACTCCGAAGGCCTAAACCTGGCGTTTCGATCTCATGGACCAGCACAACTGTGGT
CCTTCCCAACTGGAAATCACCGCAGTTGGACACCGCGTGGTCCACGGCGGAATCTTGTTT
TCCGCACCGGAACCTTACTGATGAAATCGTGGAATGATCCGCGATCTCATTCCTACTC
GCACCACTGCACAACCCTGCAAACGTTGACGGCATTGATGTTGCTCGAAAAATTTCTCCCC
GATGTCCACACGCTAGCTGTCTTTGACACCGGTTTCTTCCACTCACTTCCACCAGCAGCT
GCGCTGTATGCCATCAACAAGGATGTCGCAGCTGAACACGGAATCAGGCGCTATGGTTTC
CACGGCACCTCCCATGAATTTGTGTCCAAGCGCGTGGTGGAAATTCCTGGAAAAGCCACC
GAAGACATCAACACCATCACCTTCCACCTGGGCAACGGCGCATCCATGGCTGCTGTTCAA
GGTGGCCGTGCGGTAGATACTTCCATGGGTATGACACCTCTCGCGGGCCTTGTCATGGGT
ACCCGAAGCGGTGACATTGATCCAGGTATCGTCTTCCACCTTTCCCGCACCGCTGGCATG
AGCATCGATGAGATCGATAATCTGCTGAACAAAAAGTCGGGTGTAAAGGGACTTTCCGGT
GTTAATGATTTCCGTGAACTGCGGGAAATGATCGACAACAATGATCAAGATGCCTGGTCC
GCGTACAACATTTACATACACCAACTCCGCCGCTACCTCGGTTCTTACATGGTGGCACTG
GGACGGGTAGACACCATCGTGTTCACCGCCGGTGTGCGGTGAAAATGCCAGTTTGTCCGT
GAGGATGCCTTGGCAGGTTTGGAAATGTACGGAATTGAGATCGATCCAGAGCGTAACGCA
TTGCCAAACGATGGTCTCGATTGATTTCCACCGATGCCTCCAAGGTGAAGGTGTTTGT
ATTCCAATAATGAAGAGTTAGCTATCGCTAGGTACGCGGTGAAGTTCGCT

>RXA01436-downstream
TAGCTCTCCTGGTTAGGATCCAC

>RXA01468-upstream
TGCCAAGGATTTGACCACCGTGCAGGATTTGATTGACTTTATTAACACCAATAAGGCTGA
TTAGCGGGAAAATTTGCCCCAAAACAGGGACAATGGTGTT

>RXA01468
ATGACAGTGAACATTTTCATATCTGACCGACATGGACGGCGTCTCATCAAAGAGGGCGAG
ATAATTCGGGTGCAGATCGTTTTCTTCAGTCTCTCACCGATAACAATGTGGAGTTTATG
GTTTTGACCAACAACCTCCATTTTACCCCGAGGGATCTTTCTGCACGTCTTAAGACTTCC
GGTTTGGATATCCCGCCGGAGCGTATTTGGACTTCTGCAACCGCCACTGCTCACTTCCTG
AAATCCAGGTCAAGGAGGGCACAGCCTATGTTGTTGGCGAGTCCGGTCTGACCACTGCG
TTGCATACCGCGGGTTGGATTTTGACGGATGCAAATCCTGAGTTTGTGTCCTGGGCGAA
ACCCGCACATATTCCTTCGAGGCAATCACTACTGCGATAAATCTGATTTTGGGTGGCGCT
CGCTTTATTTGCACCAACCCGATGTCACTGGACCTTACCAAGTGGCATTTTGCCTGCT
ACTGGCTCTGTGCGCCGCACTTATTACCGCAGCTACTGGCGCTGAGCCTTATTACATCGGC
AAGCCAAACCCTGTGATGATGCGCAGTGCGCTGAACACCATCGGGGCGCATTCGAGCAC
ACTGTGATGATCGGCGACCGCATGGACACCGACGTGAAATCTGGTTTGAAGCCGGCCTG
AGCACCGTGTGTTTGAAGCGGAATTTCCGACGACGCCGAGATCCGCCGCTACCCCTTC
CGCCCACTCACGTGATCAATTCATCGCCGATCTTGCCGATTGCTGGGACGATCCTTTC
GGTGACGGTGCATTTACGTACCAGATGAGCAGCAGTTCACTGAC

>RXA01468-downstream
TAGTATTCTGTAGGTCATGGCAT

>RXA01478-upstream
GCGGGTTTTGTTGTGGAGGGGCGCGTCGAAAAGCAATTTTTTTTCCAAGATAGCTCACTT
TATTGGAGTCACCTGGCCTGAAATCCTCTACTCTGGGCGC

>RXA01478

ATGACCATTCCAGGAGCTTCCACACAGACTGATATCCCTCTGGACACACTTCTTGAGGAT
 TACGCGCTACTGTCAGACACTCACACCGGCGCTCTGCTGTCCAACATGGGCAGTTTGGAC
 TGGTTGTGCCTGCCTCGTTTTGATTCCCAAGCCATGTTTACCAGGCTGCTTGGTGATCGC
 GAGCACGGACACTGGAGTTTGCCTGTCCCAGGTGGTGAGGTGATCAGCCAAAACCTACCTC
 GGCATTTCCTTCGTGGTGCAGACCGTGTGGCGTTTTCAGAGACCGGTACTGCCCCGGTGTGTT
 GATTTTCATGCCAATTCACGGTCAAGAACAACCCGATATCACCGACCTGGTGCCTCTGTG
 CACTGCGTGGGAAGGCGAAGTGGATGTGGAATCGATCCTGCGCCTGCGTTTTGATTATGGC
 GAGTCCACTCCGTATTTCCGCACCAGCACTGTGACGGCATCAGCATCGTGCAGGCTGTC
 GCCGGCCCCAATGCGGTATATGTTTCGTGGACCTGAGATGCCACACCGCCCTGCAAAGGAT
 TGTACAGTGGCACCTTCCACCTGACGGCCGGCGAATCCGTGGAATGGGTTCACCTGG
 GCACCGTGCCTTGAACCGCATCCCCCATGCCGGATTACACCGCTCTTTGGAGAGCACC
 TTGAGCTTCTGGGCATCATGGGTTGAAGAGCTCCCCACCAGCGCTCTACGACGCTGAA
 GTCCGCGCTCCATGCTCGTACTGCGCGCCTTGACCGATCTACAAACCGGTGGCATCGTG
 GCCGCACCGACCACTCACTACCAGAGGATTTCCGAGGCATCCGTAACCTGGGACTACCGC
 TACGTGTGGCTGCGCGACTCCGCACTCACCATTGAAGCCCTCGTGGAATACGGATTCTCC
 CAAGCAGCCCTCCAATGGCGCACCTGGCTGCTGCGCGCCATCGCAGGCGACCCGGAAAAC
 CTCCGCATCATGTATGGCCTCGGCGGCGAAGCACACCTCCCTGAACGCGAAGTCCAACAC
 CTGCGCGGATACGAAAACCTCCGTGCCTGTTGCGGTTGGCAATGGAGCCGCCGAACAATAC
 CAAGCAGATGTGCTCGGCGAAGTAATGGTTCGCGCTTGAAACCATCCGCCGCGCGGGTGC
 CTCGAGGACGAATTCCTCGGGCATGCAAAAAGCCATCCTCGATTTCGAAGAAGCCAAC
 TTCGACCGCAAGGATCAAGGCATCTGGGAAATGCGCTCCGAACCGCAATATTTACCCAC
 GGCCGCGCCATGATGTGGGCCGGCTTCGACCGCGGCATCAAAGCCATCGAAGAATTC AAC
 CTCGACGGCCCCATCGAGCGCTGGCGTGAACCTCCGCGCCAACTCCGCGAAGAAATCATG
 ACCAACGGCTTCAACGAAGAGATCCAATCCTTACCCAGTGCTACGACAACACCCAAGTC
 GACGCTCGCTGCTTCAGCTCGCCCAAATAGGCTTCATCGGCTTCGACGATCCAAAAATG
 CTCAGCACCGTAGCGCGCATTGAGCAAGAGCTTCTCGACGCCCACGGCTTTCTTCACAGG
 TACCACACCGACGGGTCTGACGGCTTGCCGGCGACGAATACCCCTTCCTCATCTGTTCA
 TTCTGGCTGGTAGAACAATACGCAAGCTCCAACCGCTCGACGAGGCCAAAGAAAAGATG
 AACCGCATCCTTGCCGTCCAAAGCCCACTTGGCCTACTGGCTGAGGAATACTCCACCCAC
 CATGGCAGGCTCGCTGGAAACTACCCTCAGGCCTTTTCCACATTEGCTGTGATCAGCGCT
 GCCCGTGCCATAAATTTTGAAGAAGCGCGAAACAGG

>RXA01478-downstream

TAGAGTCTAAGGTGTCATTCTTG

>RXA01482-upstream

TTGCGTGCTGCAACTTAATTATGGTCCTCCAGCTCAGTGTGCTGTGTGGATTGTTTATT
 CTCGTCCATTAAAGTGATCGAGAAAAAGTTGTTGTAAAGTC

>RXA01482

ATGCGCATGTGTGGAATTGTTGGATATATTGGCCAAGCGGGCGACTCCCGTGATTACTTT
 GCTCTAGATGTAGTTGTTGAAGGACTACGTGCGCTGGAATACCGCGGATATGACTCCGCA
 GGATTGCTATTACGCCAATGGTGAGATTAGCTACCGAAAGAAGGCCGAAAGGTTGCT
 GCACTAGATGCAGAAATCGCTAAAGCACCTCTTCCAGATTCTATTTTGGGAATTGGACAC
 ACCCGTTGGGCAACTCATGGTGGCCCAACCGATGTCAACGCTCACCCCCACGTTGTTTCC
 AATGGCAAGCTTGCCGTAGTACACAACGGCATCATCGAAAACCTTGCGGAACTGCGCTCT
 GAGCTTTCCGCTAAGGGCTACAACCTTTGTATCCGATACCGATACCGAAGTTGCTGCTTCT
 TTGCTTGCTGAAATTTACAATACTCAGGCAAACGGTGACCTCACCCCTTGCTATGCAGCTG
 ACCGGTCAGCGCCTTGAGGGTGCTTTACCCCTGCTAGCTATTTCATGCTGATCACGATGAC
 CGCATCGTTGCAGCTCGTCGTAACCTCTCTTTGGTTATCGGCGTCGGCGAGGGCGAGAAC
 TTCTTCGGATCTGACGTTTCTGGCTTTATTGATTACACCCGCAAGGCTGTAGAGCTGGCT
 AATGACCAAGTTGTTTACCATCACCGCTGATGATTACGCCATCACCAACTTTGATGGATCA
 GAAGCAGTTGGCAAGCCTTTGACGCTGGAGTGGGACGCTGCAGCTGCTGAAAAGGGTGGC
 TTCGGTTTCCTTCATGGAGAAGGAAATCCACGATCAGCCAGCAGCTGTTTCGCGATACCCTG
 ATGGGCCGTCTTGATGAAGATGGCAAGCTCGTTCTTGATGAGCTGCGCATCGATGAAGCT
 ATTCTGCGTAGTGTGACAAGATCGTCATTGTTGCTTGTGGTACTGCAGCTTATGCAGGC
 CAGGTTGCTCGTTACGCCATTGAGCACTGGTGCCGCATCCCAACCGAGGTGGAGCTGGCT
 CACGAGTTCCGTTACCGCGACCCAATCCTCAACGAGAAGACCCTTGTTGTGGCATTGTCC
 CAGTCCGGCGAGACCATGGATACCCTCATGGCTGTTTCGCCACGCACGTGAGCAGGGTGCC

AAGGTTGTTGCTATTTGTAACACTGTTGGATCCACTCTTCCACGTGAAGCAGATGCGTCC
CTGTACACCTACGCTGGCCCTGAGATCGCTGTGGCGTCCACCAAGGCGTTCTTGGCTCAG
ATCACTGCTTCTTACTTGCTTGGCCTGTACTTGGCTCAGCTGCGCGGCAACAAGTTCGCT
GATGAGGTTTCTTCCATTCTGGACAGCCTGCGTGAGATGCCTGAGAAGATTCAGCAGGTC
ATCGATGCAGAAGAGCAGATCAAGAAGCTTGGCCAAGATATGGCAGATGCTAAGTCTGTG
CTGTTCTTGGGCCGCCACGTTGGTTTCCCAGTTGCGCTTGAGGGTGCGTTGAAGCTCAAG
GAGATCGCATACCTGCACGCTGAAGGTTTTCGCTGCAGGCGAGCTCAAGCACGGCCCAATT
GCTTTGGTTGAGGAAGGCCAGCCGATCTTCGTTATCGTGCCTTCACCTCGTGGTCCGAT
TCCCTGCACTCCAAGGTTGTCTCCAACATTCAGGAGATCCGTGCACGTGGCGCTGCACC
ATCGTGATTGCAGAGGAAGGCGATGAGGCTGTCAACGATTACGCCAACTTCATCATCCGC
ATTCTCAGGCCCCAACCCCTGATGCAGCCTCTGCTGTCCACCGTGCCTCTGCAGATCTTT
GCGTGCGCTGTGGCAACCGCAAAGGGCTACAACGTGGATCAGCCTCGTAACCTGGCAAAG
TCTGTCACCGTCGAA

>RXA01482-downstream
TAAAAAGATTTTCGCTTCTCGACG

>RXA01534-upstream
ATTGCTCTCATCGGTTTCGATATAGACTGAATTGTCTAGGTTAATATCCAATATGGAAGAA
AAACTAGACAGTTAAGTAGACTGAATGGCCTACTAGGTGC

>RXA01534
ATGACTTCAGCAATCACCACCGCAACTGATCTTCGCTCCGTACTGCGAAACGTACCAACC
CCAATTAGCTTCATTGCAACCCACACCGATCAGCCTCTGGGCATGATCGTTGGTTCATTC
GTCAGCATTAGCGCCGAACCACCATTTGGTAGGCATCTTCTTGCAGAAGAGCTCTTCTTCA
TGGCCAGCTATCGAGCAGGCATTAGTTACCGGCCAAGAGCTAGGCATTTCTATCCTCGGC
GGGGCACACGCGAGACCATGTGCGTAAGCTTTCTGGCCCATCCGACCAGCGCTTTGAAAC
CTTGGGTGGGCATCCACCGAAAACGGTGCGATTACCTTGAAGGCGCTGATGCACAACCTA
ACCACGAACTTCATGATCTCCAGGAAATCGGCGATCACTTCTTTGCAGTTCTAGAAGTT
ATTGACGCTTCCGCTGACCAAGACTTCAGCTCAGCGCTGGTGTACCACCGCTCACAGGTG
TCCTCGCTG

>RXA01534-downstream
TAGGACACTAAATTTTAAGAGGG

>RXA01535-upstream
ACCCACCTCACTCTAGGGGTGGACTCCAGTGTTTCGCGACAACACAATGAGTAAGCTTGT
GACAGCCGTATTTAATTCTCAGTAAGAAATGAGTGATTTC

>RXA01535
ATGACCGAGCAGGAATTCCGTATTGAGCACGACACCATGGGTGAAGTGAAGGTTCCAGCA
AAGGCTCTGTGGCAGGCACAGACCCAGCGCGTGTGAGAACTTCCCTATCTCTGGTTCGT
GGTCTGGAATCCGCGACAGATCCGCGCAATGGGTCTGCTGAAGGCAGCTTGTGCGCAGTA
AACAAGGACTCCGGTGCCTGGATGCAGAGAAGGCAGATGCCATCATTGCAGCTGGTAAG
GAGATCGCGTCCGGTAAGCATGACGCTGAGTTCCCAATTGATGTGTTCCAGACTGGTTCC
GGTACTTCTTCCAACATGAACACCAATGAGGTTATCGCTTCCATCGCGAAGGCTAACGGC
GTTGAGGTTACCCAAATGACCACGTCAACATGGGTGAGTCCCTCAATGACACCTTCCCT
ACTGCAACTCACGTTGCTGCAACCGAAGCTGCTGTCAATGACCTCATCCCAGGCCTGAAG
GTTCTGCACGAGTCTTTGGCGAAGAAGGCTAACGAGTGGTCTGAGGTTGTTAAGTCCGGC
CGCACCCACCTGATGGACGCTGTTCCAGTAACCCTGGGCCAGGAGTTCGGTGGCTACGCT
CGCCAGATCCAGCTCGGCATCGAGCGCGTTGAGGCTACTCTTCTCGCCTTGGTGAGCTG
GCTATTGGTGGCACCCTGCTGGTACCGGTATCAACACCTCCGCTGATTTCCGGCGCAAG
GTTGTTGCTGAACATGATCAACTTGACCGACGTCAAGGAGCTCAAGGAAGCTGAGAACCAC
TTCGAGGCTCAGGCTGCACGCGACGCTCTTGTGAGTTCTCCGGCGCAATGCGCGTTATC
GCTGTCTCCTTGTAACAAGATCGCTAACGATATCCGCTCATGGGCTCCGGCCCCACTGACC
GGTCTTGGCGAGATCCGTCTCCCAGACCTGCAGCCAGGTTCCCTCCATCATGCCAGGCAAG
GTCAACCCAGTTCTCTGTGAGACCGCTACCCAGGTTTCCGCTCAGGTTATCGGCAATGAC
GCAGCTGTTGCGTTCTCCGGCACCCAGGGCCAGTTCGAGCTCAACGTGTTTCATCCCAGTG
ATGGCTCGCAACGTGCTTGAGTCCGCTCGCCTGCTGGCTAACACTTCCCGCGTGTTCGCA
ACCCGTCTCGTTGATGGCATTGAGCCAAACGAGGCACACATGAAGGAGCTCGCTGAGTCT
TCACCTTCCATCGTTACCCCACTGAACTCTGCAATCGGCTACGAAGCTGCTGCAAAGGTG

GCTAAGACTGCTTTGGCTGAGGGCAAGACCATCCGCCAGACTGTCATCGATTTGGGCTTG
GTTGATGGCGAGAAGCTCACCGAGGAAGAGCTGGACAAGCGCTCGACGTTCTTGCTATG
GCTCACACCGAGCGCGAGAACAAGTTC

>RXA01535-downstream
TAAAACTAGAACCCGATAAATAA

>RXA01550
ATCTTCCAACAGCTGTTCTGGCGCGTGTGGGAAATCATCACAGAGATCGATCGCCGCTTC
CGTTTGGAGCGCGCAGCCGATGGACTGGATGAAGAGACCATCGACCGCATGGCTCCAATC
CAGCGCGGCACTGTTTCATATGGCATGGATTGCCTGTTACGCGGCATATTCATCAATGGC
GTGGCAGCGCTGCACACCGAGATCATCAAGGCCGAGACCTTGGCTGACTGGTACGCACTG
TGGCCAGAGAAGTTCAACAACAAGACTAACGGTGTACCCACGCGCTTGGCTGCGCATG
ATCAACCCAGGTCTGTCTGACCTGCTCACTCGACTTTCCGGTTCGGATGATTGGGTAACC
GATCTGGATGAGCTGAAGAAGCTGCGCTCCTATGCCGACGATAAGTCCGTGCTTGAAGAA
CTCCGCGCTATCAAGGCTGCTAATAAGCAAGACTTCGCCGAGTGGATCCTCGAGCGCCAG
GGCATTGAGATTGATCCAGAATCCATCTTTGACGTGCAGATTAAGCGCCTCCACGAGTAC
AAGCGCCAGCTCATGAACGCGCTCTACGTACTAGACCTTTACTTCCGTATTAAGGAAGAT
GGCCTCACCGACATCCAGCAGCACTGTCATCTTTGGCGCCAAGGCCGCGCCGGTTAT
GTCCGCGCCAAGGCGATTATCAAGCTCATCAACTCTATTGCTGACTTGGTAAACAACGAT
CCTGAGGTCTCCCCGCTGCTCAAGGTGGTCTTTGTAGAGAACTACAACGTCTCCCCTGCT
GAGCACATCTTGCTGCGTCTGATGTCTCCGAACAGATTTCCACCGCCGGCAAGGAAGCC
AGCGGTACCTCCAACATGAAGTTCATGATGAACGGCGCCCTCACCTGGGACCATGGAC
GGCGCCAACGTAGAGATCGTGGATTCTGTGGGCGAGGAAAACGCCTATATCTTCGGTGCT
CGCGTGGAAGAATTGCCAGCCCTGCGCGAAAGCTACGAGCCATATGAGCTCTATGAGACC
GTCCCTGGCCTCAAGCGCGCATTTGACGCCCTGGATAACGGCACCCCTCAACGACAACAAC
AGTGGTTTGTCTACGACCTCAAGCATTCCTTGATCCACGGTTATGGAAAAGACGCCAGC
GACACCTACTACGTGCTTGGCGATTTCGCAGATTACCGCGAGACCCGCGACCGTATGGCC
GCCGACTACGCTCCGATCCCCTGGGTGGGCGACGATGGCCTGGATCAACATTTGCGAG
TCCGGCCGTTTCTCCTCCGACCGCACCATCCGCGATTATGCCACCGAGATCTGGAAGCTC
GAGCCAACCTCCTGCTGTTAAGAAG

>RXA01550-downstream
TAGGTTTTAACCTCCGCTTCTAA

>RXA01562
GAGCAGGATTTGGACGAATTGATGCACTCCACGGGCGTCATCGATCCGCTCACAGGAGCT
CCTAAATCTGCATCAAAGCCCGGTTGGACCTCTGTGTTACGCGATGAGCTGGTCAAGATT
GGTGGCGAGAATGAAAACGTTGTTGCCATCACCGCCGCGATGGCAGGTCCTACCGGTCTG
TCCAAGTTCGAAGCCAATTTCCCAACCGATTCTTTGATGTCGGCATTGCTGAGCAGCAC
GCGGTAACTTCTGCCGAGGCCCTCGCATTTGGGTGGAAAACACCCCTGTGGTGGCTATTTAC
TCCACGTTCTTGAACCGCGCTTTTGATCAGCTGCTCATGGATGTGGGCATGCTCAACCAG
CCTGTTACTTTGGTGCTTGATCGCTCAGGTGTCACGGGTTCCGATGGAGCGAGCCACAAT
GGCGTCTGGGATATGGCGCTGACCTCGATCGTTCCAGGCGTGCAGGTGGCGGCACCGAT
GATGAGGATTTCCTTGGCTGAGCTGCTCAATGAGGCTATTTCCATCGATGATGGCCCCACA
GTTGTGCGTTTCCCCAAGGGCGACTTGCCAACTCCAATTGTTGCTATCGACACCTTGGA
GACGGCGTGGATGTCTCGCATATGAAGACGCCACTGACGTTGAATCAACCGACGATGCG
CCATCAGTTCTCATATTGCGGTAGGCGAGCGCGCAACTGTTGCACTTGACGTTGCTTCC
AGGATTAAACAGCACGGCGTGAACGTCACGGTTGTTGACCCCGCTGGATTGTCCCATC
CCGCAGTCCTTGGTTCGCGCTGTCTGATGATCATGACCTCGTGATCACCATCGAAGACGGC
GTCATCCACGGCGGCGTGGGATCCTTGCTCTCTGATGCGCTTAACGCCTCTGAGGTGGAT
ACCCCTCGCCGACAAATCGCCGTGCCCGAGAAGTACCTGGATCACGCGTCCCGCAATGAA
GTGCTCGCCGATTATGGCCTCGACGCCGACGGCATTGAAACCACTGTTGTTGGATGGCTG
GATTCCTGTTCCGGGAA

>RXA01562-downstream
TAAACCCCTGCTTATCGACGCCG

>RXA01569
GCACCGCGCCACTACATTGTGCGCACCAAGCTGGGTGATTGGCGATGGCAATAATTTGTG
CGCACCATGAAATCCCTCGACGAACGCGGCATCGCACCATCAGTAGTTGATGATCAAATC

GGCCGCCTATCCTTCACCGAAGACATCGCAGCCGGCATCGCGCACCTTTTGGGAAGTGGGT
GCAGCATATGGCACCTACAACCTCACCAACACCGGCGAACCCGCAAGCTGGGCCGATGTT
GCCCCGCGCAGTATTTTCCGACCCACCAAAGTTACCGGCGTGAGCACCGCCGAGTACTTC
GCCAACAAAGACGCAGCGCCCCGCCCCTGAAGTCCGTTTTGGATCTCGGCAAAATCGAA
GCCACCGGATTTAGCGCACCGACCTGGCAGACCCGCTCAACGACTACCTCAAGGAAGTCT
TCAAAG

>RXA01569-downstream
TGAAAGGCATCATCCTCGCAGGT

>RXA01570-upstream
CACTGAAGTCCGTTTTGGATCTCGGCAAAATCGAAGCCACCGGATTTAGCGCACCGACCT
GGCAGACCCGCTCAACGACTACCTCAAGGAAGTCTCAAA

>RXA01570
GTGAAAGGCATCATCCTCGCAGGTGGCTCCGGCACCCGGCTCTACCCCATCACCAAGGGC
ATCTCCAAGCAACTGATGCCGATTTACGACAAACCCATGGTCTACTACCCACTGACCACG
CTCATTCAGGCCGGCATCAAAGACATCCTGATTATCACCACCCCTGAAGACAGCGCCTCC
TTTGAACGCTTGCTTGGCGACGGCTCCTCCTGGGGCATCAACCTCACCTACGCCGTCCAA
CCCTCCCCGACGGACTAGCCCAAGCATTCATCATCGGCGAGGAATTCATCGGTGACGAC
GACGTCGCGTTGGTGCTTGGCGATAACATCTTCGACGGCGCACAACTTGGCCACGCACTA
AAGCAGTGCTCCAACCCCGACGGTGGCATTGTCTTTGCTTATGAGGTCTCCGATCCTGAG
CGTTATGGCGTGGTGGAAATTTGATGCTGCTAATAAGGCGGTGTCTATTGAAGAAAAGCCC
ACCGCGCCAAAATCCAACCTTTGCCGTGGTAGGACTATATTTCTACGACAATCGCGTGGTG
GACATCGCCAAGTCAATCAAGCCTTCCTCGCGTGGCGAACTGGAAATCACCTCCGTTAAC
GATGCCCTACCTCCAGCAAGGTGCTTTAACTGTGCAGCGCCTGGACCGTGGCGATGTCTGG
TTAGATACCGGCACAATCGATTCCATGTCCGAGGCGTCTTCCTATGTTGAGGTCCTGCAA
AAACGTACCGGCAACATCATCGGATCCCCGAAGTCGCTGCGTACCGCGAAGGTTTCATC
ACAGCTGAAGAACTCACAGTGCTTGGTGAGGAACTGAAGAAATCAGGCTACGGAAACTAG
CTGCTGAGAGCTTTG

>RXA01570-downstream
TAATTTACGGTGTGGTTGTGGAG

>RXA01571-upstream
AAACTACCTGCTGAGAGCTTTGTAAATTTACGGTGTGGTTGTGGAGGGGTGCGTCGAGAAG
CGCTCGTAGGCGCTTTTGATTTTTTCGGTAGGCTAACTGGG

>RXA01571
GTGAGTATCTCAGTAAAAGCACTACAAAAGTCCGGCCCCAGAAGCACCTTTTCGAGGTCAAG
ATCATTGAACGCCGTGACCCACGCGCAGATGATGTGGTTATTGATATCAAAGCTGCGGGC
ATCTGCCACAGCGATATCCACACCATCCGCAACGAATGGGGCGAGGCGCACTTCCCGCTC
ACCGTCGGCCACGAAATCGCAGGCGTTGTCTCTGCGGTTGGATCCGATGTAACCAATGG
AAAGTCGGCGCAGCGCTGGGCGTCGGCTGCCTCGTTAACTCCTGCGGCGAATGCGAACAG
TGCGTCGCAGGATTTGAAAACAACCTGCCTTCGCGGAAACGTGCGAACCTACAACCTAAC
GACGTCGACGGCACCATCACCCAAGGCGGCTACGCTGAAAAGGTAGTGGTCAACGAACGT
TTCTGTGTCAGCATCCCAGAGGAACCTAACTTCGATGTGCGAGCACCCTGCTGTGCGCA
GGCATCACCACTACTCCCAATCGCTCGCTGGAACGTTAAAGAAGGCGACAAAGTAGCA
GTCATGGGCCTCGGCGGGACTCGGACACATGGGTGTCCAGATCGCTGCAGCCAAGGGTGC

>RXA01571-downstream
TGAGGTTACCGTTCTGTCCCGTT

>RXA01572-upstream
CTGCTGTGCGCAGGCATCACCACTACTCCCCAATCGCTCGCTGGAACGTTAAAGAAGGC
GACAAAGTAGCAGTCATGGGCCTCGGCGGGACTCGGACAC

>RXA01572
ATGGGTGTCCAGATCGCTGCAGCCAAGGGTGCTGAGGTTACCGTTCTGTCCCGTTCCCTG
CGCAAGGCAGAACTTGCCAAGGAACCTCGGCGCAGCTCGCACGCTTGCGACTTCTGATGAG
GATTTCTTACCGAACACGCCGGTGAATTCGACTTCATCCTCAACACCATTAGCGCATCC

ATCCCAGTCGACAAGTACCTGAGCCTTCTCAAGCCACACGGTGTCATGGCTGTTGTCTGGT
CTGCCACCAGAGAAGCAGCCACTGAGCTTCGGTGCGCTCATCGGCGGCGGAAAAGTCCTC
ACCGGATCCAACATTGGCGGCATCCCTGAAACCCAGGAAATGCTCGACTTCTGTGCAAAA
CACGGCCTCGGTGCGATGATCGAAACTGTGCGCGTCAACGATGTTGATGCAGCCTACGAC
CGTGTGTTGTTGCCGCGACGTTTCAGTTCCGCGTTGTCATTGATACTGCTTCGTTTGCTGAG
GTTGAGGCGGTT

>RXA01572-downstream
TAGGTTTACTGAAGTTCAGACTT

>RXA01615-upstream
TATGGCCAACACTTGCATTTCGGGTGCTGGCGATCATTTATGAGATGACGCCTTGTGTTGG
TGTTCCGGCAGAGAACTCGCGGAGATAAAAGGAAGTTGAAC

>RXA01615
ATGTCAGATTCCCCGAAGAACGCACCGAGGATTACCGATGAGGCAGATGTAGTTCTCATT
GGTGCCGGTATCATGAGCTCCACGCTGGGTGCAATGCTGCGTCAGCTGGAGCCAAGCTGG
ACTCAGATCGTCTTCGAGCGTTTGGATGGACCGGCACAAGAGTCGTCCTCCCCGTGGAAC
AATGCAGGAACCGGCCACTCTGCTCTATGCGAGCTGAACTACACCCAGAGGTTAAGGGC
AAGGTTGAAATTGCCAAGGCTGTAGGAATCAACGAGAAGTTCAGGTTTCCCGTCAGTTC
TGGTCTCACCTCGTTGAAGAGGGAGTGCTGTCTGATCCTAAGGAATTCATCAACCTGT
CCTCACGTATCTTTCGGCCAGGGCGCAGATCAGGTTGCATACATCAAGGCTCGCTACGAA
GCTTTGAAGGATCACCCACTCTTCCAGGGCATGACCTACGCTGACGATGAAGCTACCTTC
ACCGAGAAGCTGCCTTTGATGGCAAAGGGCCGTGACTTCTCTGATCCAGTAGCAATCTCT
TGGATCGATGAAGGCACCGACATCAACTACGGTGCTCAGACCAAGCAGTACCTGGATGCA
GCTGAAGTTGAAGGCACTGAAATCCGCTATGGCCACGAAGTCAAGAGCATCAAGGCTGAT
GGCGCAAAGTGGATCGTGACCGTCAAGAACGTACACACTGGCGACACCAAGACCATCAAG
GCAAACCTTCGTGTTCTGTCGGCGCAGGCGGATACGCACTGGATCTGCTTCGCAGCGCAGGC
ATCCACAGGTCAAGGGCTTCGCTGGATTCCAGTATCCGGCCTGTGGCTTCGTTGCACC
AACGAGGAAGTATCGAGCAGCAGCAGCCAAGGTATATGGCAAGGCATCTGTTGGCGCT
CCTCCAATGTCTGTTCTCACCTTGACACCCGCGTTATC

>RXA01626-upstream
GCAATAGCGAATGCGTAATTAAACCACACTTCAAACCTAGCCCCCTCAGGTGGAGGATTCCG
ACATTACCGTCTGAAAAATTTTCATCCGTAGGCTAAAGAGC

>RXA01626
ATGTCGAAAACGATCATCGTGCACCGAAATTGAAATCCCTGGACACCCAACCGCCATC
CATATCGCAGAGATGCAGGAGCTTCCCCATCTGAGGCTCAAGGCGGCGTGCAGATGTGC
AAAATGCAGCGCATTATTGAACTAGCAGGAAGTCCGAAGGGGATGTCGTTACTGGTGCA
GGTGTATTGGCGGATCTAATTTCCAGCTGAATAACGAGCCAAATGAAGTGGTTCCCAT
CCAGATACCTATGCGGATTTCCCGATATCAAGGCGGTTGTTATCTCCGCGGAGACTTTT
GAAGGCCTGTGGCTGGAAGCGGGAGCGAAGTTCCCTGGGTAAAT

>RXA01626-downstream
TAACCACTTGCAGTATACCCTAG

>RXA01632-upstream
AAGGGCTGCAACGTGCTTTCGACACCACCATCGCAGCGTTTGAACAAGCTGCTCGTCTCG
CCCCCTCCACTAACTGATCTTTGAAAGGCTGAAAAAACTC

>RXA01632
ATGACTCTTCGTATCGCCCTTTTCGGCGCTGGCCGCATCGGTACGTCACGCTGCCAAC
ATTGCTGCAAACCTGATCTTGAAGTCTGTTATCGCCGATCCTTTTATTGAAGGCGCA
CAGCGTTTGGCAGAAGCCAATGGGGCAGAAGCGGTTGCATCACCAGATGAGGTGTTCCGC
CGCGATGATATCGATGGCATCGTGATCGGTTACCAACCAGCACCCACGTTGATCTGATC
ACCCGCGCCGTGGAACGTGGCATTCTGCACTGTGCGAAAAACCCATTGATTTAGACATT
GAAATGGTGCGTGCTGCAAAGAGAAGATCGGCGACGGCGCTTCCAAGGTGATGCTGGGG
TTTAACCGACGCTTCGATCCTTCTTTCGCTGCCATCAATGCGCGAGTGGCAAACCAGGAG
ATCGGCAACCTGGAGCAGTTGGTGATCATCAGCCGCGATCCAGCGCCCGCACCGAAGGAC
TACATCGCAGGTCCGGTGGAACTTCCGCGATATGACCATCCACGATCTGGATATGGCG

CGTTTCTTTGTGCCCAATATCGTGGAAGTGACTGCAACCGGCGCCAATGTTTTTCAGCCAG
GAAATCGCGGAGTTCAATGACTACGACCAGGTTATCGTCACGCTTCGTGGCTCAAAGGGC
GAGTTGATCAACATCGTGAACCTCCCGCCACTGCTCCTACGGCTACGACCAGCGACTTGAG
GCTTTTCGGCTCTAAGGGCATGCTCGCCGCCGACAACATCAGGCCCCACCGGTGCGCAAG
CACAATGCGGAAAGCACCGAGCAGGCAGATCCGATTTTCAACTTCTTCTCGAGCGCTAC
GACGCCGCTTACAAGGCAGAGCTCGCAACTTTTGCTCAAGGAATCCGCGACGGCCAAGGC
TTCTCACCAAACCTTCGAGGACGGCGTCATCGCCCTTGAAGTAGCGAATGCATGCCTTGAA
TCAGCTCAAACCGGCGCGACCGTCACCCCTCAACCCTGCCAACGTT

>RXA01632-downstream
TAGTCAACGTCTAGTTAATGCCT

>RXA01633-upstream
GCGAATGCATGCCTTGAATCAGCTCAAACCGGCCGACCGTCACCCCTCAACCCTGCCAAC
GTTTAGTCAACGTCTAGTTAATGCCTAAGGAGAAAACCTC

>RXA01633
ATGAAAAACATCACCATCGGAATGGTCGGCGTCGGCCGATTGGCCGCATGCACGTCGCC
AACATGCTTGCCGTTGCTGAACTTTGAAGGAACGCGACCTCAACATTGAGATCGTGCTC
GCAGACGCAATGCCCGTTTTGCGGAGCAGGTGGGCGCGGACATGGGCGTGAAGGCGGCG
GCAAGCGTCGATAAGCTTATTGAGGACGGGTGGATGCCCTTTTCATTGCCACCAGCACC
GCTGGCCACGTCGATGTTTTGCGCAAGGGCATCGCGGCAAAGCTGCCGATGTTCTGCGAG
AAGCCGATCGCGTCGGATGTGCCTGAGTCGCTGAACATCATCCGCGAAATTGATGCGGCT
GGCGCGACGGTTCAGGTCGGCCACCAGCGCCGTTTTGACCTCGGTTACCAGGAAGCTAAA
CGACGCCTAGATGCAGGCGACCTCGGCTGGCTTCATTGCTCAAGGCCGTATCGAGCGAT
GCGTTTTCCGCCACCGGTGTCCTACTGCGCTACCTCTGGTGGACTTTCCGCGATGTGTCTG
CTGCACGATTTTCGACATCATTCGCTGGCTGACCGGCCAGGATATTGTCGAGGTGTACGCC
AAGGGCAGCAACAACGGCGACCCAGAAATCGGCGCAGTCGGTGACATCGATAACGGAGCG
GCCCTACTCACGCTTGCCGACGGCACCCCTCGCCACCGCCATCGCCACTCGTTACAACGGT
GCAGGCCACGACGTTTCGCTCGATGTTATGGGCTCTAAAGATTCCACGATCGTTGGCCTG
GATGAAAAGTCTGCGTTTCGCTTCTGCGGAGGAGGGCATCGATTTCCCAACCGGCGAATCG
CACCCAACGTTTGCCGAGCGCTTCGCCGACGCATACAAGAATGAGTGCATTGCGTTTCGTG
GAGTTGATCCTGGGAGAGCGGGAAAACCTTGTACCCCTGCAGACGCTGTGGCTGCGGCG
ATTGTTGCGGATGCAGCTCAGCTGTCGCTGGTCACTGGCGAGCCAGTGAAGATTCCCTACT
GTACGGGAAATTCCTGAAGGTTCTGCGCAGCCAGTTGAGGTGCGTGCGCTGGTTCCATCT
GCT

>RXA01633-downstream
TAAAACCTTACTGCTTATCTAAA

>RXA01695
GCCGATTGCTCGGTGCTTCCCCTGGAGCATCCATCGCACCTTCCGCAATGATCGAGCTG
CTTGAGCGTTGCTTCGGTGACCGCATGATCGAGTGGGGCGACAAGCTGAAGGACATGATC
CCTTCCTACGGCAAGAAGCTTGCTTCCGAGCCAGCACTGTTTGAGCAGCAGTGGGCACGC
ACCCAGAAGACCTGAAGCTTGAGGAAGCC

>RXA01695-downstream
TAAATCTTCTAACTGCTTCTTT

>RXA01702-upstream
ATTGTGAATGTGGGATTATCGGTTTCGCGCTTCACCATGTTTCTGCATGATGAAATTACAT
ACATAGTTTCAGTGACAGTCACCTTTTGGAGGAGACACCTT

>RXA01702
ATGCCTATCGCAACTCCCGAGGTCTATAACGAGATGCTCGATCGTGCTAAGGAAGGCGGA
TTCGCCTTCCAGCCATCAACTGCACCTCCTCGGAAACCATCAACGCAGCTCTCAAGGGC
TTCGCAGAGGCTGAATCTGACGGAATCATCCAGTTCTCCACCGGTGGTGACAGTTCGGT
TCCGGCCTGGCAGTAAAGAACAAGGTCAAGGGCGCAGTTGCGCTTGACAGCCTTCGCCAC
GAGGCAGCAAAGAGCTACGGCATCAACGTTGCTCTGCACACTGACCACTGCCAGAAGGAA
GTCCTGGACGAGTACGTCCGCCCCTGCTGGCTATCTCCAGGAGCGCGTCGACCGCGGC
GAGCTTCCACTGTTCCAGTCCCACATGTGGGATGGTTCCGCTGTCCCAATCGACGAGAAC

CTCGAAATCGCACAGGAGCTGCTGGCTAAGGCCAAGGCAGCGAACATCATCTTGGAAGTT
 GAGATCGGTGTTGTCGGTGGCGAAGAAGACGGCGTTGAGGCTAAGGCTGGCGCAAACCTC
 TACACCTCCCCAGAAGACTTTGAGAAGACCATCGATGCAATCGGCACCGGTGAGAAGGGC
 CGCTACCTGCTAGCAGCTACCTTCGGTAACGTCCACGGCGTTTACAAGCCAGGCAACGTC
 AAGCTGCGCCCAGAGGTCCCTCCTTGAGGGCCAGCAGGTTGCACGCAAGAAGCTTGGAAGTT
 GCAGACGACGCACTTCCATTTCGACTTCGTCTTCCACGGTGGCTCAGGCTCCGAGAAGGAA
 AAGATCGAAGAGGCGCTGACCTACGGCGTCATCAAGATGAACGTTGATACTGACACCCAG
 TACGCATTACCCGCCCAATCGTCTCCACATGTTTGAGAACTACAACGGCGTTTCTCAAG
 ATCGACGGCGAGGTTCGGAAACAAGAAGGCTTACGACCCACGCTCTTACATGAAGAAGGCT
 GAGCAGAGCATGTCTGAGCGCATTATCGAGTCTTGCCAGGACCTCAAGTCTGTTGGAAAG
 ACCACCTCTAAG

>RXA01702-downstream
 TAATCTCAGCAGTTAAAAAGGGC

>RXA01705-upstream
 GCAGGTGCACATTTGTTTTGTACCTGCACAAAAGTGTGCGCCAGCCCGATACTTGTACAA
 CCGTCCGCATCCGAGAAGCAAAGGTGTCTGACTCGCGCCA

>RXA01705
 ATGGGAATTCTGAACAGTATTTCAACACCTGCTGACTTAAAGGCCCTTAATGATGAGGAT
 TTGGACGCTCTTGCCAAAGAAATCCGAACCTTTCTGGTCGATAAAGTCGCAGCAACTGGT
 GGCCACTTAGGTCCAAATTTGGGCGTAGTGGAATTAACCATCGGTCTTCATCGAGTTTTTC
 GATTGCGCTCAAGACCCGATCATCTTTGATACTTCTCACCAGTCCATGTGCATAAGATC
 CTGACGGGTGCGCTAAAGATTTTGATTCTTTGCGTCAAAAAGATGGCCTTTCTGGTTAC
 ACCTGCCGTGCTGAAAGTGAGCACGATTGGACTGAGTCTTCGCATGCTTCGGCGGCCTTG
 TCTTATGCGGATGGTTTGTCTAAAGCCAAAGCAGTTGGATGGCGGATACACGCATAGTGTG
 GTTGCTGTCGTTGGTGATGGCGCTCTAACTGGCGGCATGTGTTGGGAAGCACTGAACAAT
 ATTGCTGCTGGTAAAGACCGCAAAGTTGTTGTGCTAGTCAATGACAATGGCCGGAGTTAT
 TCTCCAACCATTTGGCGGATTTGCGGAAAACCTTGCGGGCCTTCGCATGCAGCCTTTCTAT
 GAT

>RXA01743-upstream
 AGGCAAAGACTGGACCGGCAACCCCGATTGGTTCAGATATGCCCATGACACCGCTGCAAT
 TTACTGCCGCTGCCCCAACACAGGTGAAAAGGAATAACC

>RXA01743
 ATGGATCTCAATACCTTTTGGTTTTATTCTCATCGCATTTTTTGTGTTGCGGGATACTTTCTC
 CTCGAAGGATTTCGACTTCGGCGTCGGAATTTTGGCACCCATCATCGGTAAAGATTACGCG
 GCTAGGAACACAGTGATCCGTACGATTGGCCCTGTCTGGGACGGAAATGAAGTGTGGCTG
 ATCGTGGCAGGTGGCGCTTTGTTTGTGCTGCCTTCCCTGAGTGGTACGCAACGATGTTCTCC
 GGAATGTATCTGCCGCTGTTCCCTCGTGCTTGTGTGCTTGATCATGCGCGTGGTGGGCCTT
 GAATGGCGCAAGAAAGTCGATGATCCTCGTTGGCAAAAGTGGTCTGACCGGGCCATCTTT
 ATTGGTTCTTGACTCCACCGCTGATGTGGGATTTCATCTTCGCCAATATTTTGGCTGGC
 ATGCCCTCAAGGCGGATCACACCATCGATGCTGCGGCAGCCCTTCTGGCATGGTCAAC
 GTCTTCGCCATTCTGGGTGCACCTGCGTTACCGCACTGTTGCGCCCTTCATGGTCTCGCA
 TTCATCCGCTGAAAACCTGCTGGTTCGGGTGCGCACCGATGCGGCGAAGGCAGCTCCAGTA
 GTCGCACTTCTTGCTGCGGTGACTGGTGGACCTTTCTGTGTTGTGGGCTGCCATCGCATAC
 GGCCGTTCTGGTTCCTGGATCCTCGCAGTGCTGATCATCGCAGCGGTTCTCGGTGGAGCT
 TTCGCACTGATCAAAGACCGCATGGATTAAGCTTCTGTCCACTTCCGTGCTGTCATC
 GGTGTGCTTGCACTGCTGTTT

>RXA01744
 TGGTCGGAATATTCGCGTTTCGTGCGGTGATGTTTTCGGCGGACCGCTGGCTTTGGAGGGT
 CTTATCGCGTTCTTCCCTTGAGTCTGTATTCCTGGGACTGTGGATTTTCGGATGGGGGAAG
 ATTCCTGGTTGGTTGCACACTGCATCCATTTGGATCGTTGCTATTGCGACGAATATTTCT
 GCCTATTTTCATCATCGTGCCAACTCGTTTATGCAGCATCCGGTGGGTGCTGAGTATAAC
 CCTGAGACTGGTTCGTGCGGAGCTTACTGATTTTTTGGGCTCTTCTACAACTCCACCGCG
 CTGGCTGCGTTCCCGCATGCTGTTGCCGGTGGTTTTTTAACAGCTGGAACCTTTCTGTTCTC
 GGAATTTTCGGGTGGTGGATTATTCGTGCGCACCGTCAGGCCAAGAAGGCTGAGTCGGAA
 ATCGAGTCGAAGCATTCGATGCACAGGCCCGCGTTGTGGGTTGGTTGGTGGACCACAGTT

GTCTCTTCCGTGGCGCTGTTTCATCACTGGCGATATCCAGGCGAAGCTCATGTTTCGTGCAA
CAGCCAATGAAGATGGCGTCGGCGGAATCCTTGTGTGAAACCGCCACAGATCCAAACTTC
TCCATTCTGACAATTGGTACGCACAACAACCTGCGATACGGTAACCCACCTGATCGATGTT
CCGTTTGTGCTTCCATTCTTGGCTGAAGGAAAATTCACCGGTGTGACTTTGCAGGGTGTA
AACCAGCTCCAAGCTGCAGCGGAGCAAGCATACGGTCCTGGCAACTACTCCCCTAACTTG
TTTGTACCTACTGGTCATTCCGCGCAATGATCGGCCTGATGCTTGGTTCTTTGGCTATC
GCTGCGATTGCGTGGCTGTTGCTGCGTAAGAAGCGCACACCAACTGGAAAGATTGCTCGT
CTGTTCCAGATCGGCAGCCTCATTGCTATCCCGTTCCCATCTTGGCCAACTCTGCTGGT
TGGATCTTCACCGAGATGGGCCGCCAGCCTTGGGTGGTGCACCCGAACCCTGAATCTGCC
GGCGATGCCCCGAACAGAGATGATCCGGATGACTGTTGATATGGGTGTATCTGATCATGCG
CCATGGCAAGTCTGGCTGACTCTCATTGGCTTCACGATTCTCTATCTCATTTTGTTTCGTG
GTGTGGGTGTGGCTGATTGCGCGCGCAGTTCTGATCGGACCACCAGAGGAAGGCGCTCCA
TCCGTGGAGGCAAAGACTGGACCGGCAACCCCGATTGGTTCAGATATGCCCATGACACCG
CTGCAATTTACTGCCGCTGCCCCAACCCACAGGTGAAAAGGAA

>RXA01744-downstream
TAACCATGGATCTCAATACCTTT

>RXA01745
ATCCTTGCAGACGAAGACGACACCGTCGACGTGGGCGCAGTCATCGCCCGCATCGGTGAC
GCAAACGCAGCTGCAGCACCTGCCGAAGAGGAAGCAGCTCCTGCCGAAGAGGAAGAACCA
GTTAAGGAAGAGCCAAAGAAGGAGGCAGCTCCTGAAGCTCCAGCAGCAACTGGCGCCGCA
ACCGATGTGGAAATGCCAGAACTCGGCGAATCCGTCACCGAAGGCACCATTACCCAGTGG
CTCAAGGCTGTGGCGACACCGTCGAAGTAGACGAACCACTTCTTGAGGTCTCCACCGAC
AAGGTGACACCGAAATCCCATCCCCAGTAGCAGGCACCATCGTGGAGATCCTTGCAGAC
GAAGACGACACCGTCGACGTGGGCGCAGTCATCGCCCGCATCGGTGACGCAAACGCAGCT
GCAGCACCTGCCGAAGAGGAAGCAGCTCCTGCCGAAGAGGAGGAACCAAGTTAAGGAAGAG
CCAAAGAAGGAAGAGCCCCAAGAAGGAAGAGCCCCAAGAAGGAAGCAGCTACTACACCTGCT
GCGGCATCCGCAACTGTGTCCGCTTCTGGCGACAACGTTCCATACGTCACCCCACTGGTG
CGCAAGCTTGCTGAAAAGCACGGCGTTGACTTGAACACCGTGACCGGTACCGGTATCGGT
GGCCGTATCCGCAAGCAGGATGTTTTGGCTGCTGCGAACGGCGAGGCTGCACCTGCTGAG
GCTGCTGCTCCTGTTTCCGCTTGGTCCACTAAGTCTGTTGACCCTGAGAAGGCTAAGCTC
CGTGGTACCACTCAGAAGGTCAACCGCATCCGTGAGATCACCGCGATGAAGACCGTCGAG
GCTCTGCAGATTCTGCTCAGCTCACCCAGCTGCACGAGGTGATATGACTCGCGTTGCT
GAGCTGCGTAAGAAGAACAAGCCCGCTTCATCGAGAAGCACGGTGTGAACCTCACTTAC
CTGCCATTCTTCGTGAAGGCAGTTGTGAGGCTTTGGTTTCCCATCCAAACGTCAACGCG
TCTTTCAACGCGAAGACCAAGGAGATGACCTACCACTCCTCCGTAAACCTCTCCATCGCT
GTTGATACCCCAGCTGGTCTGTTGACCCAGTCATTACGATGCTCAGGATCTCTCCATC
CCAGAGATCGCAAAGGCAATTGTTGACCTGGCTGATCGTTACGCAACAACAAGCTGAAG
CCAAACGATCTGTCCGGTGGCACCTTACCATCACCAACATTGGTTCTGAAGGCGCACTG
TCTGATACCCCAATCCTGGTTCACCCACAGGCTGGCATCTTGGGCACCGGCGCGATCGTG
AAGCGTCCAGTTGTATCACCGAGGATGGAATTGATTCCATCGCGATCCGTGAGATGGTC
TTCTTACCACTGACCTACGACCACAGGTTGTAGATGGCGCAGATGCTGGTTCGCTTCTGT
ACCACCATCAAGGACCGCCTTGAGACCGCTAACTTCGAAGGCGATCTGCAGCTC

>RXA01745-downstream
TAAGATCTCTGCAAGTTAAAACC

>RXA01758-upstream
CCCCCTTATTAGAGTGATGGTCTACCGGAGAAGTACCCAGACCAATAGCATCGACCAAC
GATAGCGCGCTCAGAAGTTCTTTAGTGAAAGCAGAACCA

>RXA01758
ATGCCCAAATACATTGCCATGCAGGTATCCGAATCCGGTGCACCGTTAGCCGCGAATCTC
GTGCAACCTGCTCCGTTGAAATCGAGGGAAGTCCGCGTGAAATCGCTGCTAGTGGTGTG
TGCCATGCAGATATTGGCACGGCAGCAGCATCGGGGAAGCACACTGTTTTCTCTGTTACC
CCTGGTTCATGAGATTGCAGGAACCATCGCGGAAATTGGTGAAAACGTATCTCGGTGGACG
GTTGGTGTATCGCGTTGCAATCGGTTGGTTTGGTGGCAATTGCGGTGACTGCGTTTTTGT
CGTGACGGTGATCCTGTGCATTGCAGAGAGCGGAAGATTCTGGCGTTTCTTATGCGGGT
GGTTGGGCACAGAATATTGTTGTTCCAGCGGAGGCTCTTGCTGCGATTCCAGATGGCATG
GACTTTTACGAGCCCCGCCCGATGGGCTGCGCAGGTGTGACAACATTCAATGCGTTGCGA

AACCTGAAGCTGGATCCC⁶GTGCGGCTGTGCGGGTCTTTGGAATCGGCGGTTTAGTGCGC
CTAGCTATTCAAGTTTGCTGCGAAAATGGGTATATCGAACCATCACCATCGCCCGCGGTTTA
GAGCGTGAGGAGCTAGCTAGGCAACTTGGCGCCAACCACTACATCGATAGCAATGATCTG
CACCTGGCCAGGCGTTATTTGAACTTGGCGGGGCTGACTTGATCTTGTCTACTGCGTCC
ACCACGGAGCCTCTTTTCGGAGTTGTCTACCGGTCTTTCTATTGGCGGGCAGCTAACCATT
ATCGGAGTTGATGGGGGAGATATCACCGTTTCGGCAGCCCAATTGATGATGAACCGTCAG
ATCATCACAGGTCACCTCACTGGAAGTGCGAATGACACGGAACAGACTATGAAATTTGCT
CATCTCCATGGCGTGAAACCGCTTATTGAACGGATGCCTCTCGATCAAGCCAACGAGGCT
ATTGCACGTATTTCACTGGTAAACCACGTTTCCGTATTGTCTTGAGCCGAATTCA

>RXA01758-downstream
TAATGCCAACAGCAAGCCCAATT

>RXA01814-upstream
TGTTAAGCCACCCTACTCCGTGAATTTTGCCGTATCTCGTGCGCACAAATTGCTTTTGAGG
GGAAGATGAAGAGAAAGTATTGGTGTTTTAAGGAGCAAAC

>RXA01814
ATGGCACATGAACGCGCCGGGCAACTCGCCCAACCAGAAGATCTCATCGATGTTGCGGAA
CTGGTCACCGCATATTTACCCGCAAGCCGACGTGAACAACCCTGATCAGCAGGTGCGT
TTCGGCACCTCCGGACACCGTGGCTTCGCGCTGGACAGCGCTTTCAACGAGGACCACATC
CTGGCAACCACCCAGGCGATCGTCTGACTACCGCAACCAGCAGCCAAAAA¹CTGGGTGCGC
CCGCTGTTTATCGGCCCGCGATACGCACGCGCTGTCCGAACCAGCGATGATCAGCGCGCTT
GAGGTCTCTATTGCCAACGACGTCTGAAGTGCTTGTCTGACGCCGACGGCCGCTACACCCCG
ACGCCCGCAGTGTCACGCGATCCTACGACACAACGATGGCATCATCCTTGGCACC²GCA
GGACCTTCCCGCCCCTACGCCGACGGCATCGTGATCACCCCATCCCACAACCCTCCTCGT
GATGGCGGATTC³AAATACAACCCAGCCAACGGTGGCCCTGCAGATACCGACGCCACCGAC
TGGATCGCCAACCGCGCCAACGATATTCTGCGCGGCGACCTTGCAGACGTGAAGCGAGT⁴T
CCAGTTTCCGGTGTCTCTGACGAGCGCACCACTGCCTACGACTTCAAGGGCATT⁵TACATC
GCTGACCTGCCAAACGTGGTCAACATCGATGCCATCCGCGAAGCTGGTGTTCGAATCGGC
GCAGACCAATGGGTGGCGCATCCGTGGATTACTGGGGTGCCATCGCAGAAACCCATGGC
CTCAACCTCACCGTGGTCAACCCACACGTTGATTCCACCTTCCGCTTCATGACATTGGAC
ACCGACGGCAAGATCCGCATGGACTGCTCCAGCCCACACGCAATGGCATCGCTGATTGAC
AACCGAGACAAGTTCGATGTGGCAACCGGCAACGACGCCGACGCCGACCGCCACGGCATC
GTCACCC⁶CAGACGCTGGCTTGATGAACCCCAACCACTACCTCGCAGTAGCAATTGAGTAC
CTCTTTGCTCACCGCCAGGTGGTCCGCAGATACCGCAGTGGGCA⁷AAACCCTGGTCAGC
TCCTCCATGATCGACCGCGTTGTGGCGCAGCTTGGCCGACCCCTCGTTGAGGTTCCAGTC
GGATTCAAGTGGTTTGTCCCAGGTTTGATCTCCGGCGAAATCGGATTCGGTGGTGAAGAA
TCCGCAGGTGCATCCTTCTCCGCATGGACGGCACCACTGGTCCACCGACAAGGACGGC
CTCATCCTTGACCTCCTGGCAGCTGAGATCATTGCAGTAACCGGCAAGACCCCATCACAG
CGCTACGCAGA⁸ACTCGCCGAAGAATTCCGGTGCACCTGCCTACGCCCGCACCGATGCAGAA
GCCAACCGAGAACAA⁹AGGCCATCCTGAAGGCACTGTCCCCAGAACAGGTACCCGCCACC
GA¹⁰ACTAGCCGGGCAAGCAATCACCGCTAAGCTCACCGAAGCTCCCGGCAATGGCGCAGCC
ATCGEAGGACTAA¹¹AGTGAGCAACCGAAAACGCCTGGTTGCGCAGCACGCCCATCCGGCACC
GAAGACAAGTACAAGATCTACGCAGAATCCTTCAAGGGCGAAGAGCACCTCGCC¹²CAGGTT
CAGAAGGAAGCCCAAGCGTTGGTCAGCGAAGTACTCGGACAG

>RXA01814-downstream
TAA¹³AACTGCGGACTTGCTGACAA

>RXA01839-upstream
TTCCTGCTGCCAGGTGTC

>RXA01839
ATGCGCATGAACGCACCTGTCCCATTGGGCGGTACCTCCAACCATCTGCTCACGGGTGTC
CTGAAAGATCTCGGCGCGTGGGATCCTTTCAATGTACAGAAGATGCGGACCTCGGCGTA
CGCATCGCGGCA¹⁴AGGGATATTCCACCGCGGTGTTGGATTCCGGTGACGTGGGAGGAAGCA
AACTCCGACACCATCAACTGGTTGCGCCAGCGTTCTCGCTGGTACAAGGGCTATCTGCAA
ACATGGCTTGTGTATATGCGCAGGCCAAAGTGGTTAGTCCAAGAGCTTGGCATCATTCCT
GCTGTGCGT¹⁵TTTACCTTCCTCATGGCAGGCACCCCGATCATTGCGGTGCTCAATCTGCTC
TTTTGGTACTTGTGCTCACGTGGATTCTGGGCCAGCCCGGCACCATTGAGCAGATGTTCT

CCACCTGCGGTGTACTACCCAGCGTTGGTGTGTTTGGTGGTGGCCAATGCTGCGACCATC
TTTATGAATCTCATTGGCTGCCGGGAAGGCCGCGACCCCTTGCTGCTCATCGCGTTCTC
ACGTTCCCGCTGTATTGGCTGCTCATGAGCATTGCAGCGTTGAAAGGCACGTGGCAATTG
ATCACGCGACCATCCTATTGGGAGAAAAGTGGCCACGGATTGGAGGCG

>RXA01839-downstream
TAAGCGGTGCCCATCGTCAAACC

>RXA01851-upstream
TTGTGGCCTTTTTCGAGGGGAAACTTATTTAAATAATTCAAGTAAAAAACCGTCAATT
CACGATGTGGGTTGGCGGTTTTCCTATTAGGCTCACTTTT

>RXA01851
ATGACGAGCGCACACTTTGAATCCCGCCGGATTGGCCCTCCGCTTCGCGATAATTATGAC
GTCATTGTGATTGGCGGTGGTATCTCAGGTGTACAGATTGCGCGACATGCTCAAGGCCGC
GGTTTACGCACTGTGATGTTGAGGCCAGAGATTATTCTTCTGGAACATCATCGACAACC
TCCAAGATGATTGATGGTGGTTTGGCTATTTGGAGCAGTACGATTTCGGCGTGGTCCAG
GAAGCCGTGAAGGAACGCCGGTACCTAGGTATCGCCGCTCCGCATTGGTGGCTCCACGC
AGTTTCATGCTCACGGCGTTTGGTGGTGCAGAGCCGAAAGCCCCCTATGTTGGGTGCTGGT
GTGGCGTTGTATGAAACGATGGCGTGGCAGCGTAACCAGGGGCAATCGAAGGAAAACAC
TCGCCGCGTTTCCGGTGGATTCTTAAATGCACTGCTCAAGGAAGTCCCGTGGCTTGAC
CCGGAGGGCTTGAAGGGAGCGTGGCGCCACGATGATACGTTGAATCTCCATGCAGAACGA
CTCCTCCTCGCGGTGATTAAAGCTTTTGGCGGAGATGGCGGAACGGCGATCAACCACGCC
AAAGTCACTCGCATTCTCCGGAACGTGGAAGAAGGCCGCGTCAAGGGTGTAGAAGTGACT
GATCAGGTACCAACACACGCATGAGGTGAATGCCCTGTGGTGATCAACGCTGCGGGT
CCGTGGGTGGCGAGCGTGGGTGATTGGCGGAGGTAACCAAGTTGAAGGTGCGCCAA
TCCAAGGGAGTGCAATTGCTCACTGGTGATTGGGCGAGCCAGAGTGGCGTGTGTGCGT
GGCAAAAACGGCAAGCATGTGATCGTGAATCCGTGGATGGGGCGCACCCCTTATTGGTCCA
ACCGACACCATGATTGACGGTGACGCTGATGATGCGGCTGCAGATGAAAGCGATATCGAT
TTGCTGCTTGAGACCATCGATTCCGTACGCGCTACACCGCTTGATCGCAAAGAGATCATC
TCCACGCTGGTGGGTGTGCGCCCGCTTGTGATGACGGCACCGACACCTACACGTCCTCT
CGCCGTTTCGATATTTCCGATCACGCCAACGTCCGCATTGATGGTTTGGTGTCTGTCTCT
GGCGGCAAGTGGACCACTTCCCGCTGATGGGGTACAAGGTGATTGAGCATGTGGTGGAG
CACCAAGCTGCGGTGTACCTCCGCTGCGCCACTTTGACTCCAGGCAGATGCCGTGAGT
ACTTCTTTTGGCGCGTATGAGTCCGTGGCTGATTCTTTGAGTCAGCGCTTCGCAGCCAC
CCCGAGCTGGATGTGGATGATGAAATCCGCGTGCATCTGGCCAGACTGTATGGAAC TGAG
CATGAAAAGTGCTGGATCTCGTCGCAAAGCAACCCGACCTGGGGCGCCGACTTGACCCA
GACAACCTTGATATCGCGGCGCAGGCCGTTTTTGTGTGCGCGAGGAGGCGGCCGTCGAC
CTGGCGGACGTGCTGGATCGTCGCATCGTGCTCGGCACGCTGGGTTATGTGCAACCGGCT
GCCGTGCGTGCGACGGCCGAAGCAATGGCGCAGGTCACCGGGTGGTCAGCTGAGCTTATC
GACGCCCAGTGCCAGTCTACCTCGCCAAGCAAGACAAAATCCAAGCCGTGTTAAAGCCG
TACCGC

>RXA01851-downstream
TAACACTCCGTCATCGACACCGG

>RXA01859-upstream
TACGCCCAGGGTTTCCATATTGGTAAATCTAAGCCGATTGATGAATTTATAGCTACTTAT
CTCGAGACGAACCAACCGCTACCTGGGGGTAGGAAGAAT

>RXA01859
ATGAAAAGAAGAGCTTTCCAATCGCAAGAGTCATCGGTATCGGCGTCTTGGCATCGCC
GGGATGGGAATATTGTTGCTATGGCTTGCAAGTTACCCTGTCTGATCCAGCATCACCGGGT
GCCAAGAAACCGAAGTCTTTGATAGGTGGAAGTGCTCTTTGATGACTATATTCCACCA
GTCAGGGTATTGGTTGCTGCGATTATCGTTGCATTAATTTTCGTCTTTATCGCTGCCACA
GTGGAACGAACCGTAACCAACCGCTACCGAAGCTCCGTAGACGGCGAAAGAGTGCCATTA
GCGCCGAAGATTGTGATGGCAGAAACCCGAGGGGTATTTTCATGGACCGATTACCATTAAC
GTGCTCGTGCCAGCACACAATGAGGCGGAAAGAATTACTGGAACAATTCAGGCATTGAAA
TCACAACATGAGCCTCCAGAACGCATCGTTGTAGTTGCCGATAATTGCACTGATGAAACT
ACGGAATTAGCCCGTGCTGAGGGAGTGGAGGTCTTGGAACAGTCAATAATAAGTTTAAAG
AAGGCCGGAGGACTCAATCAGGCTTTGAGCCGGATGCTTCCACATTGGGGGAGAATGAC

ATTGTGATGATCGTTGACGCTGATACAGCACTTGATCAAGGTTTCCTCAAGGAAGCACGG
CGCCGCTTTGAGTCTGATCGCGCTCTAATGGCCGTGGGCGGATTGTTCTACGGTGAGTCA
GGCTCCGGATGGCTTGGCCAATATCAGCGCAACGAATACACCCGTTATAGCCGTGACATC
TATCGACGCCGCGGACGTGTGTTTGTGTTTACTGGAACAGCGTCGGCTTTTCGGCCACGC
GGCCTGCGGACAGTAGCGGAATCACGCGGGACATTGATCCCCGGACGTAAAGCCGATGTT
TATGACACCGCGGGCGTTGACCGAAGA

>RXA01859-downstream
TAATGAGTTGACCCTGGCTTTGA

>RXA01865-upstream
GGTGGAATTTGGCCTGCGGTCAAGGGGAAGTAGCATAATAAGCCTAAAGCTTTCCCATAT
TTATTAGCCTCTTAGAGTTCTCAGGAGAAAACGAAATCCC

>RXA01865
ATGACATACACAATCGCACAGCCCTGCGTTGACGTCTTGGATCGTGCCTGCGTTGAAGAA
TGCCAGTAGATTGCATCTACGAAGGTAAGCGCATGCTGTACATCCACCCGGATGAGTGC
GTTGACTGTGGTGCATGTGAGCCTGCTTGCCAGTTGAGGCAATCTTCTACGAGGACGAT
GTCCCAGACGAATGGCTTGACTACAACGATGCCAACGCTGCATTCTTCGATGATCTGGGC
TCCCCAGGTGGTGC GGCTAAGCTTGGACCACAAGATTTTGATCACCCAATGATCGCTGCG
CTGCCGCTCAGGCA

>RXA01865-downstream
TAATCTAACGCATGACCTCTCGC

>RXA01882-upstream
ACCCTTTTTCCACCTTGCTGATTTTGATGCCCTTGTTACCGATGACCACACGCTAGATT
TTCCAGTTTTGCCCCGACCACAACCTTTCAGGTGGTAACCCC

>RXA01882
ATGATCATCACATTACCCCCAAACCCGAGTATTGATTCCACGCTGTCGCTCGGCGAAGAG
CTCTCCCGTGGATCCGTCCAACGACTTGATTCCGTCACCGCTGTGCGAGGTGGTAAAGGC
ATCAATGTCGCCCCACGCTGTCTTGCTTGCGGGCTTTGAAACCTTGGCTGTGTTCCCAGCC
GGCAAGCTCGACCCCTTCGTCCCACTGGTCCGCGACATCGGCTTGCCCGTGGAACCTGTT
GTGATCAACAAGAACGTCCGCACCAACACCACAGTCACCGAACCGGACGGCACCAACCACC
AAGCTCAACGGCCCCGGCGCGCCGCTCAGCGAGCAGAAGCTCCGTAGCTTGGAAGAGGTG
CTTATCGACGCGCTCCGCCCCGAAGTCACCTGGGTTGTCTTGCGGGCTCGCTGCCACCA
GGGGCACCAAGTTGACTGGTACGCGCGTCTCACCGCGTTGATCCATTACGACGCCCCTGAC
GTTGCGGTGGCTGTGATACCTCAGACAAGCCACTGATGGCGTTGGGCGAGAGCTTGGAT
ACACCTGGCGCTGCTCCGAACCTGATTAAGCCAAATGGTCTGGAACCTGGGCCAGCTGGCT
AACACTGATGGTGAAGAGCTGGAGGCGCGTGTGCGCAAGGCGATTACGACGCCATCATC
GCAGCTGCGGACGTACTGGTTAACCGTGGCATCGAACAGGTGCTTGTCACCTTGGGTGCC
GCAGGAGCGGTGTTGGTCAACGCAGAAGGTGCGTGGACTGCTACTTCTCAAAGATTGAT
GTTGTATCCACCGTTGGAGCTGGAGACTGTGCTCTTGACAGGTTTGTATGGCACGTTCC
CAGAAGAAAACACTGGAGGAATCTCTGCTGAATGCCGTGTCTTACGGCTCGACTGCGGCG
TCTCTTCTGGCACTACCATTCCTCGTCTGACCAACTCGCCACAGCTGGTGCAACGGTC
ACCCAAGTCAAAGGATTGAAAGAATCAGCA

>RXA01882-downstream
TGAATAGCGTAAATAATTCCTCG

>RXA01884
ATGCATGTCGACGGCTTCCGCTTCGACCTTGCTCTACCCCTTGCTCGTGAATTTGATGAT
GTTGACCGCTGGCAACCTTCTTCGACCTGGTCCAACAAGACCCGGTGGTCTCCAGGTC
AAGCTCATTGCTGAGCCGTGGGATGTTGGCGAAGGCGGATACCAAGTGGGTAACTTCCCA
CCACTGTGGACTGAGTGAACGGTAAATACCGCGACACTGTCCGTGATTTCTGGCGTGGT
GAGCCAGCAACCTTGGGTGAATTCGCTTCCCGACTAACTGGTTCCTCTGATTTGTATGCA
AACAACGGCCGTCGCCCCACTGCATCGATCAACTTTGTGACTGCTCACGACGGCTTCACC
CTCAATGACTTGGTCAAGTACAACGAGAAGCACAACATGGCCAACGGTGAAGACGGTCGG
GACGGTGAATCACACAACCGTTCCCTGGAACGTGGCGTGAAGGACCAACTGACGATCCT
GAGATTATGCAGCTGCGTGCTCAGCAACGACGCAACTTCCTCACCACTTGTGCTGTCC

CAGGGCACCCCTATGTTGTCCACGGTGATGAAATGGCCCGTACCCAAAACGGCAACAAC
AACGTCTACTGCCAAGACAATGAACTGGCGTGGGTGAATTGGGATCAGGCTGAAGAAAAC
GCTGACTTGGTGAGCTTCACCAGGCGTTTGTGCGTATCCGAGCAAACCACCCAGTATTT
AGGGCGAGGCAGTTCTTGGCCGTGGCCCTTTGGGCGCCGATGTTCTGTGACCGCGATATC
GCATGGCTGGTACCAAATGGAACCTTGATGACTCAAGATGACTGGGACTTCGCTTTCGGT
AAATCACTGCAGGTGTTCTTCAACGGCGATGCCATCGAAGAGCCTGATTATCGAGGACAG
AAAATCCACGATGACTCCTTCATCTTGATGTTCAACGCTCACTTCGAACCTATCGATTTT
AATCTCCCTCCTGAGCATTTCCGGTATGAAGTGAAGCTTTTGGTGCATACCACCGAAGCG
GTGGGCCACCCGCTGGAGGATCTCACCATCGAAGCTGGCGGAACCATCACTGTTCTCGCC
CGTTCCACGATGCTGCTGCGCCAGGTGGAGGCTCCGGACTACACCAAGCTTGAGGAAAAG
ATCGCTGCTGAAAAGCGTGAGCAAGAAGCTGCGGCAGAGAAGGAAGCTGCTGAGAAGCGC
GAATTGGAAGTGGCGGCAGCAAAGGAAGCTGAAGATGCTGCTGAGGCTCTCCACCTTGCG
GCAGAACGTGCTTCGACTCAGGAAGCTGAATTGGCCCATCAACACGGTGTGATGCGATT
GCCGATGAGGTAGCGGAAGAACCACAAGAGCTGCCACAAGATGAAGTAGCGGCAGAGGTC
GAGACTGAGCCCCGACACCGAGCCTGACACTGAATCTGACTCCGAGCAGGCTGAGGTAGCT
TCAGAGGAGCCTGAAGCGGACGAAGAAGAGAAG

>RXA01884-downstream
TAGTACACCGAAAGTGGCGTCGC

>RXA01886-upstream
GCGAAGCTGCACGCACCGCACTACTCATCGCACTCGGCGCCATCCGAAGCGTAGAAACCG
GCGCAACCATCAACCTTGCTGAAAGCATCGAGGTTTAACC

>RXA01886
ATGACTTTTAAACTCGCAGCATGCGCAGAGATGATCTACCAGGACCTGCCTTTCGAGGAG
AGGGTCAAGACGATCTCTGATCAGGGATTCTCGTGGAATTTGGGACTGGTCCACAAAA
GACATCGATGCGCTCGTGGAACAGGCGCGGAATTTTCTCCATGACGGGCTACCTGCGC
GGGGATCTGATTACTGAACAGGGCCGCGCGGAGCTCTTGGAACCGCTTCGGAGTCCTTG
GCGGTGGCGGAAAAGCTCAACTGCCCCGGCTGAATCTGCATGGAAGTGCCTTGGACCG
CAGGGACTACCTGTTACTCCCATTTGAAGTGGTTACCCAGAAATGTGGCTCTACGCTGCT
GAAACGCTCCGCCAGATCGCTGAGCTGGGGGAGCGCGCAGGCAAGGTTTTCGTGCTGGAA
AACCTCAACCTCGCAGTCGATCACCCGGCACTCCTTTTGCCAAGGCCACTGACACTTTG
GCGCTGGTCAAGGCTGTCAATCACCCGAATCTGCGCCTCAACCTGGATTGTACCACGCC
CAGATTGGCGAAGGAAACCTCATTGAGCTGCTCCGTGAGGCGCAGCCATTATCGGCGGAA
ATCCAGGTTGCCGATGTCCCCGGCCGCATGGAACCCGGCACCGGCGAGATCAACTACCAG
GGCGTCGCGAAAGCTCTCGCCGCGATGGGCTACGACGGCGTCATCGGCATGGAGGCGTGG
GCATCGGGCGACTCCAGCGACGCGCTGCAGGCGTTGAAGTCAGCGTTCACGGTC

>RXA01886-downstream
TAAATTGCTTATCGACGCACCCC

>RXA01887-upstream
CATCTTTACAGGAAACCCCTTGACGGCATCAATGGGTGGTATCTAGTATCTACTAGAACG
TTATAGTAGAACGTTCTAGTAAACTTGGAAGGATGAAAA

>RXA01887
ATGTCAGTCAAACCTTGCCCTCATCGGTGCTGGACGCATCGGATCAAATCACGCACGCCTG
ATCACAAACCACGTGATCGGCTCTGAACTGGTGCCTGCGTGGACCCAACTCCCAACGCA
GAAACCCCTCGCTGATGAATTGGGCGCCGTTGCGTTCTTAACCCAGATGACGTCCTGACC
CGCGATGACATTGACGCGGTTTGTATTGCTACACCAGCACGAACCCACGCGGATCTCGTG
GTCAAAGCAGCGCGAGCGGGCAAGCACGTGTTTGTGGAAGGCCCATGGCCGTCAACCTC
GAGGACGCAGATCGTGCCATCAACGCAGCACGCAAGCAAAACACTGTCCTGCAGGTGGGC
TTCAATCGTCGTTTCGCGGCAGGTTTCGCTGCAGCACGCGCACGCATTGACGCAGGCGAT
ATCGGCACCCACAGCTGCTTCGTTCCGTGACCCGCGATCCAGGACCATTCACCGCTGAC
CCCAACAAGATCCCTCAGTGGACCATCTTCTTGAAACCCCTCATCCACGATTTTCGATGCG
CTGTGCTACCTCAACCCAGGCGCAACCCCAAGTGAAGTAACCGCTCACGCTGATTGCCTC
GTCGTTCCAGAAGCTGCTGGCACTGGCTTCCTCGACACCGCAGTGGTGAAGTGTCCGTTT
GATAACGGAGCAATTGGTACTGCAGAAGCAAGCTTCAGCGCAGCCTATGGTTATGACGTT
CGCGGTGAAGTCTTCGGATCCAAGGGCATGATGACCGCAGGCGACGCGCGCAACCAAC
ATGACTTTCTACGGCGCTGAGGGCATCGCGGCTGCCACCTCACGCGCGGATACCGATCTG

CTCTCCGATGCTTACCGAGCTGAATTCCAAGCTTTGTCGACTCCATCCGTACCAACACC
CCTTCCAAGGTTCCAGGCGAAGCTGCACGCACCGCACTACTCATCGCACTCGGCGCCATC
CGAAGCGTAGAAACCGGCGCAACCATCAACCTTGCTGAAAGCATCGAGGTT

>RXA01887-downstream
TAACCATGACTTTTAAACTCGCA

>RXA01888-upstream
AGTAGATACTAGATACCAACCATTTGATGCCGTCAAGGGGTTTCCTGTAAAGATGTAAGAG
ATTAAGAAAAGAGGTAGATATGGCGTCAAAGCGACCGACA

>RXA01888
ATGGCTGATGTGGCAAAAAGCTGCTGGAGTATCCACTGCGCTGGTCTCCATCGTGTTCGC
GATGCCCCCGGAGCAAGTGAATCCACCCGCAACCATGTGAAAGAAAAAGCCGCCGAACCTC
GGATACATTCCTGATCGACGAGCCCAAAAACCTTCGCCAAAACCGCTCCGGACTCATCGGT
GTGGCATTCGAAATGCACCAAGCATTCACGGCGATATCGTCGAACACCTCTATCCCACC
GCCGAAAACATGGCTTCGACCTGTACCTTAGCGCGATCACACCGACTCGCACTGAAAAA
GATGCCGTCAACGCCCTGATCAGGGAACGATGCGAAGCAGTAATTCTTCTAGGATCTCGC
ATGTCACCTAGTGATTTGGAAACAATCGCACAGCAACTTCCCGTCCAAGTAATTGCCCGC
GGTTCGGGAACCCCCAAAGTCAGTTCGGTCCATGTGACGACGCGAGTTGGCGCCCAATTA
GCCCTCAACACCTCATCGAATTAGGCCACGAACACATCATCTACATCGATGGTGGCGAC
GCCCTGGCACCCAGGAA

>RXA01891
TACTACAACAAGGATCTGTGGGCTAAGGCTGGCCTGGAAGATCGTGGCCCAGAGTCATGG
GAAGAGTTCTCCGAGTGGGGTCCAAAGCTGCAGGAAGCGATGGACAGTGGTTTCGCACAC
GGTTGGGGAGATGCAACCAACTACCTTTCTTGACTTTTGAAGGCCCAATGTGGTCCCTC
GGCGGCAACTACTCTGAAGGTTGGGAGTCCCGTCTGACTACCCAGAGACCATCCGTGCA
GTTGAGTGGCTCAAGTCCACCGTTGATGAAGGTTTCGCAACCGTCTCCACCGACGTCAAC
AACGAGTTCGCAACCGGCTGATCGGTTTCATGCATCCAGTCCACCGGTGATCTGTCTTCG
GTTGCCGGCGCTGCAAGCTTCGACTGGGGCGTAGCAGCACTTCCTAACCCAACCGGCGAG
GGCGCTTSCCCAACCGGTGGCGCAGGCCTGGGAATCCCATCTGGCATCTCTGAGCAGCGT
CAGGACAACGCCCTGAAGTTCATCGACTTCCTCACCAACCGCGGAACACTGGCTACTGG
TCCCGCGAGACCGGTTATGTTCCAGTTCGTAAGGATGCTGCATCTGATCCAGATCACGCA
GATTCTCTGAGGAGAACCCTGCATACAACGTTGCAGTGGAGCAGCTTCCTGATACCCGT
TCCCAGGACAACCTTCGCGTGCTGCTGCCAAACGGTGACCGCACCATCGGTGACGCACTG
GAGAAGATCTGCCTGACTGGTGCAGACATCGATGTACCCCTGGCTGAGGTTGAGACCAAG
CTGAACACCATCTACACCCGCGACATCGAACCCTTATT

>RXA01891-downstream
TAATCCGAGCACTTCAGCTACAC

>RXA01895
CACCACCTCTTCCAGCCACTGCTGTACCAAGTGGCAACCGGTATCCTCTCCTCCGGTGAA
ATCGCACCTTCCACTCGACAGATCCTGGGCTCCCAGGAAAACGTCAACGTCAAGGGC
GAAGTCAACGACATCAACGTCGAGTCCCAGACTGTGACCGCCTCCCTGGGCGAGTTCACC
CGCGTTTTTGTAGTACGATTCTTGGTCGTTGGTGTGCGCAGGTGAGTCCCTACTTCGGC
AATGATCACTTCGCTGAGTTCGCACCTGGCATGAAGTCCATCGACGATGCACTGGAGATT
CGTGACGATCATCGGTGCTTTCGAGCGCGCTGAGATCTGCGAGGATCCAGCTGAGCGC
GAACGCCTGCTACCTTCGTCGTTGTTGGCGCTGGCCCAACCGGTGTTGAGCTTGCTGGC
CAGTTGGCTGAGATGGCTCACCGCACCTTGCTGGTGAAGTACAAGAACTTCAACACCAAC
TCCGCAAAGATCATCTGCTGATGGTGCTCCACAGGTTCTTCTCCTCATTTCGGTAAGCGC
CTAGGCCGCAACGCACAGCGCACCTTGGAAGATGGGTGTCAACGTTTCGCTGAACGCT
ATGGTCACCAACGTTGACGCTACCTCGGTACCTACAAGACCAAGGACGGCGAAGAGCAC
ACCATCGAATCTTCTGCAAGATTTGGTCCGCTGGTGTGCGGCATCCCCACTGGGCAAG
CTCGTCGACAGACGACCGGTGTTGAGACCGACCGCGCAGGCCGCTCATGGTTAACGAT
GACCTGTCTGTTGGCGATCAGAAGAAGTCTTCGTT

>RXA01901-upstream
GCATGTTGCCTTCTCTGTGATCGCCTCGTTCTTCATCCAACGCGTCGCGCACCAAGAG
AACTAAAATCTAAGTAAAACCCCTCCGAAAGGAACCAACC

>RXA01901

ATGGTGAAACGTCAACTGCCCCAACCCCGCAGAACTACTCGAACTCATGAAGTTCAAAAAG
CCAGAGCTCAACGGCAAGAAACGACGCCTAGACTCCGCGCTCACCATCTACGACCTGCGT
AAAATTGCTAAACGACGCACCCAGCTGCCGCGTTTCGACTACACCGACGGCGCAGCCGAG
GCCGAATCTCAATCACACGCGCACGTGAAGCATTGAAAAACATCGAATTCACCCAGAC
ATCCTCAAGCCTGCAGAACACGTAGACACCACCACCCAAATCCTGGGCGGAACCTCCTCC
ATGCCATTTCGGCATCGCACCAACCGGCTTCACCCGCTCATGCAGACCGAAGGTGAAATC
GCAGGTGCCGGAGCTGCAGGCGCTGCAGGAATTCTTTACCCCTGTCCACCCTGGGCACT
ACCTCCATCGAAGACGTCAAGGCCACCAACCCCAACGGCCGAAACTGGTTCCAGCTCTAC
GTCATGCGCGACCGCGAAATCTCCTACGGCCTCGTCGAACGCGCAGCCAAAGCAGGATTC
GACACCCTGATGTTACCGTGGATACCCCCATCGCCGCTACCGCATCCGCGATTCCCGC
AACGGATTCTCCATCCCGCCACAGCTGACCCCATCCACCGTGCTCAATGCAATCCCACGC
CCATGGTGGTGGATCGACTTCCTGACCACCCCAACCCCTTGAGTTCGCATCCCTTTCTCG
ACCGGCGGAACCGTGGGCGACCTCCTCAACTCCGCGATGGATCCCACCATTTCTTACGAA
GACCTCAAGGTTCATCCGTGAAATGTGGCCAGGCAAGCTCGTAGTCAAGGGTGTCCAGAAC
GTTGAAGACTCCGTCAAATCCTCGACCAAGGCGTCGACGGCCTCATCCTCTCAACCAC
GGTGGCCGTCAACTCGACCGCGCACCAGTCCCATTCCACCTCCTGCCACAGGTACGCAAG
GAAGTCGGATCTGAACCAACCATCATGATCGACACCGGCATCATGAACGGCGCCGACATC
GTCGCGAGCCGTAGCCATGGGCGCTGACTTCACCCTCATCGGTCTGCTTACCTCTACGGA
CTCATGGCCGGAGGCCGCGAAGGCGTCGACCGCACCATCGCCATTCTCCGCGAGCGAGATC
ACCCGCACCATGGCTCTCCTCGGTGTTTCTCCTCGAAGAACTCGAGCCACGCCACGTC
ACCCAGCTGGCCAAGATGGTTCAGTTTCTGACGCAACTCGTTCTGCAGCGGCGGAGATT

>RXA01901-downstream

TAAAAGTTTCTCTCCTTAGCTAT

>RXA01915

ATCGATGTTGTCAGCGTCGTGGTGGCTAACTTCCTGCACCGCGAAATCGTGGAAGCACTT
CTGGCATCCGGCAAGCATGTGCTGTGCGAGAAGCCACTGTCAGACACCATCGAAGATGCA
GAAGCCATGATTGAGGCAGCCGGCCGTGCAGCAACAAATGGCACCATCGCCCGCATCGGA
CTGACCTACCGCCGTTCCCCAGGCGTGGCACACATCCGTGATCTCGTGCAGTCCGGCGAG
CTTGGAAGGTTCTACACGTACCCGGCCACTACTGGACCGACTACGGATCCAATGCACAG
GCACCAATCAGCTGGCGTTACAAGGGGCCAAACGGCTCCGGCGCACTGGCAGATGTGGGA
AGCCACCTCACCTACCTGGCAGAATTCTGTTGCAGGATCTGACTTCGCCGCGCGTCCGTGGT
GGCCAGTTGTCCACCGTGATCACCAGCGGCCCAAGCCACTCGGCGCGATTGTGGGCCAC
GAAGGCGGCGCAGTTTCCGATGAATACGAAGCAGTGGAAAATGATGACATTGCATCATTC
TCCGGATCCTTCATCGGTGGCGGAACCGCAACCCTCCAGGTACCCGCATTTCCAGGGA
CACCCAAACACCCCTAGGTTTTGAAGTGTTCTGTGAAAAGGGCTCCGTGCTCTTTGATTTT
CGCAACTCAGGCGAATTCAAATCTTCACCCAGCAACCTCCGGTGACATCAGCCAAGAA
GCCGGCTACCGCACCATCACCATCGGACCAAAGCACCCATACTGGCGCGGCGGCCTTGCA
ATGGATGCACCGGCGTGGGAATTGGCCAAAACGAAGGCTTCGTTTTCCAGGCGCGCGCA
TTCCTCGAAGAAATCGCAGGAATCTCCGAAGCTGAAAGCCTGCCACGCTGCGCAACTTTG
GAAGAAGGGCTACACAATATGCAGCTCATTGATGCTGTATCACAGTCAGCTGCAGCAGGT
GGCGAAACCGTTGCGGTCCCAGCGGCTGCTCTGATCCCTGCAACAAC

>RXA01915-downstream

TAGAAACTATTAGAAAGCATCA

>RXA01919-upstream

ACCTATGACCGCTGTGGCGCCTAGGGTCGACGGGCACGTCGCCCCCTCAGAGGCCCGAGCC
GACAGGCCATGCACGCAAGGGCAGCAAAGCATGGTTAATG

>RXA01919

ATGACCACCACCGACCACAAGCAGCTGGGCATTATGTACATCATTATGTCCTTCAGCTTC
TTTTTCTCGGTGGCTTGATGGCCCTGCTTATCCGAGCGGAGCTTTTACCCCTGGTCTG
CAGTTCTGTCTAATGAGCAGTTCAACCAGCTGTTACCATGCACGGAAGTGTATGCTG
CTGCTGTACGGAATCCAATTGTTTGGGGTTTTGCTAACTACGTCCTGCCACTTCCAACC
ACCANGCAAGCCTTCTCTAAAACCCGGGTGAACTCTCCCAGGGAG

>RXA01927

AATGACACTCGTTCTGCCAGGCTGCGTTGGATCTCAATGAGGAGATCGGCGGCGATCAG
 GCTGCGGTAGATGCCACGGGAAGTGTGTATGTTGCTTCTTTAACTGCCACCAAATGCGG
 TGGATGCGTGATCATGAACCAGAAAATGCAGCGCGCACGGCGTCGGTGATGTTGCCTCAT
 GATTTCCCTCACCTGGCATTGTGATGGGACGCGGACGCAAAGTCACCGACCATGGTGATGCT
 TCTGGAACGGGCTACTACAGCACGCGTGATCGTGCGTGGCGCACCGATCTAGCTGCCTTG
 GCGCTGGGCCATGAGGTGGAACCTCCTGAACTCCTGGCCCCAAATGCGATTGCGGGAACA
 ACTCCAGGTGGAGTGAAAGTTGCTGCAGGCACGGGAGATAATGCTGCGGCTGCGCTTGGC
 CTTGATTTGCAGCCTGGTGATGTCAGCGTGTCGATCGGCACCTCTGGCGTTGCGGCGATG
 ACCGTTCAACATAGCGTCCACGATCCATCTGGTTTGGTCACTGGTTTCGCCGATGCCACG
 GGTGCGTATTTCCCGCTGGCCTGCACGCTTAATGGCGCACCGGTGTTGGAATTCGGCCGC
 CGCATTCTGGGCGTGGAATGGGAAGAGTTCGATGCGCTTGCACTGGCTGCTCAACCCGGT
 TCAGGTGGCGTGACGCTCCAGCCTTATTTGGAGGGCGAGCGTACGCCGAATCGTCCCGCA
 GCACGTGGCGTTTTGGCTGGACTAACTGTGCAACGACCCGCGAGGACTTTGCCCGAGCA
 ACTGTTGAAGGCTTGTGTTGGCATTGGATGATGCTGTAACGGCGCTGGTTGAGGCCACG
 GGAGTGCCCGTTCAGCGCATCCAGCTCATCGGTGGCGGCGCGCGTTCACAGGCGGTTTCGT
 GAGATTGCCCCTGAGATTTTCGGCCATGAGATTGTGGTTCCAGAACCCGCTGAATATGTG
 GCGTTGGGTGCAGCTCGTCAGGCGGCATGGGCGCTGTGCGGTGAGGCCACGCCACCGCAG
 TGGCCAACCTCCCGGTTCCGATCCGCACCGCGCACCTAAAAACACTGAGCTGAGCACGCGT
 TATGCGAAGCTGCGTGCTGCAACGCAGGGTTGGTAC

>RXA01927-downstream
 TAGAGCTCGATATTGTCGATCAA

>RXA01952
 CCAGGACTATGTCGCCAAGCAGGGCGTGGATCTCAAGGCGCTGACGACCGCATCCAGCAC
 TTGCTGGAGGAGCACGGCAAGAAGCTGCCCGCGAGCACAACCTACGGTCGCATGTACAAG
 CTGCCGGAGTCCATGGAAGAGCACTTCAAGGAGCTCGATCCGACGAATACGTTCAACGCC
 GGTATCGGCGGCACGTCGCCGCACAAGGACTGGGCC

>RXA01952-downstream
 TAAGTCCCCAAGGTAGCGCGACG

>RXA01955-upstream
 CCATCAAAAAATGAACGACCGCGGACTAGCTCGGATCAAGGCGACATCCCCTCAGCATCA
 TGACGCGCTTGTGATGCAACTGAATATAGGAAGCTTAGAG

>RXA01955
 ATGACGCAACCAGGACAGACCACCACGACTTCGCACGAAGCGATCGATGCGTTCAAGAGA
 ATCGTGGGCGACGAACATGTACTGACCTCTGAGCGTGCCACGATGCCATTACAGCAAAGGC
 TATCGATTGCGGCGGAGGACCACTCTTCGCCGTGGTGCGCCCCGGCACGCTGGTCGAGATG
 TGGCGGGCGCTGCAGGTATCCGTCGACAACAACCTCATCGTCATCCCGCAGGCATCGAAC
 ACGGGCCTGACTGGTGATCCGGCCCCGGCTTCCAAGACTACGATCGCCCCATTGTGATC
 ATCTCGACTACCCGATCGATGAGGTGCACCTCATCAACGACGCGCGGAGGCGATCTCG
 CTGCGGGGACCCCCGCTGACACACCTGACCGACGCGCTCGCCAAGCACCAGCGCGAGCCG
 CACTCGGTGATCGGGTCGACATCAATCGGCGCCTCGGTTCATCGGCGGCATCGCGAACAAAC
 TCGGGCGGCAGCCAGATTTCGCAAGGGTCCGGCATTACGCGCGAAGCGATCTTCGCCCGC
 GTCAACGACGACGGCAAGGTCGAGCTGGTCAATCACCTGGGCATCTCGCTCGGAGACGAC
 CCTGAGGTGCGACTCGACCGTCTACAGCGCGGCGAGTGGTCTCCCGAGGATGTCACCCCA
 GCTCCCGAAGACTCGAACGAGACCGAGTACGCCGAGCACTTGCGCAAGATCGTGCCCTTCG
 CCTGCTCGCTACAATGCGAACCCCGAGTACCTGTTTCGAGGCTTCCGGCTCGGCCGGCAAG
 CTGATGGTGTTCGCGGTGCGCACCCGACCTTCCCTCGCGAAGTGCAACCCGACCGTGTTT
 TACATCGGCACGAACAACACGCACGAGCTCGAAGAGATCCGTGCGTTGTTCTCGAAGCC
 GACATGCGCGTCCCTATCTCTGGTGAGTACATGGGCCGAGTGCCTTCGACTTGGCCGAG
 AAGTACGGCAAAGACACCTTCGTCTTCCTGAAGTTCATGAGTCCAGCGCTGCAGACGCGC
 ATGTTCTCGTTCAAGACGTGGGCCAACGGCTTGTTCCTCGAAGATTCCCGGCATTGGTCCG
 ACCTTCGCCGACACGGTATCGCAAGCCATGTTTCAGCGTGCTGCCCAACCAGCTGCCCAAG
 CGCATGATGGAGTACCGCAACCGTTTCGAGCATCACCTGCTGCTCACCGTCAGCGAGTCG
 CAGAAGGCCGCGAGCGAGAAGATGCTCAAGGAGTTCCTTCGCGAGAGCCGAGCACACTGGT
 GAGTTCTTCATCTGCACGTCTGATGAAGAAAAGAGCGCGTTCGCTCAACCCGGTTCGGCGCG
 GCCAGTGCCGCCACTCGCTACGCCGCGTTGAAGCGCCGGCACATCGCAGGGCTCATCCCC
 ATCGATGTGGCCCTGCGTCGCGACGATTGGAAGTGGCTCGAGGTGCTGCCGGAGGAGATC

GACGACCAGCTTGAGGTCAAGGCGTATTACGGGCACTTCTTCTGCCATGTGATGCACCAG
GACTATGTCGCCAAGCAGGGCGTGGATCTCGAGGCGCTGCACGACCGCATCCAGCACCTG
CTGGAGGAGCGCGGCGCGAAGCTGCCCCGCCGAGCACAAC

>RXA01989

GTTAAATCAATTACAAAAACAATTCATGAAGGTACTGGTGCAGGTAGTGACTTCTTAGGC
TGGGTTGATTTACCAGTTGATTACGACAAAGAAGAATTTTCAAGAATTGTTGAAGCATCA
AAACGCATTAAAGAAAAATCTGATGTTTTAGTAGTCATCGGTATTGGTGGTTCTTACTTA
GGTGCACGTGCAGCAATCGAAATGTTAACGTCATCATTTAGAAACAGCAATGAATACCCT
GAAATTGTATTTGTTGGTAATCACTTATCATCAACATATACGAAAGAGTTAGTTGATTAT
TTAGCAGACAAAGATTTCTCTGTAAACGTTATTTCTAAATCTGGTACAACCTACAGAACCA
GCAGTTGCATTTAGATTGTTCAAACAATTAGTTGAAGAAAGATACGGTAAAGAAGAAGCA
CAAAAACGTATATTTGCAACAACGGATAAAGAAAAAGGTGCTTTAAAACAGTTGGCTACA
AACGAAGGTTATGAAACGTTTATCGTACCTGATGATGTAGGTGGAAGATATTCTGTTTTA
ACAGCAGTAGGATTATTACCAATTGCAACAGCTGGAATTAACATCGAAGCTATGATGATT
GGTGCTGCAAAAGCACGTGAAGAATTATCT

>RXA02026

CCATTTTCATATACAACCAGAAACAGGTTTATTAAATGATCCCAACGGACTTATTTTTTAT
AAAGGGAAGTATTATGTTTCACATCAATGGTTCCCATTAGGCGCAGTACATGGCTTAAAG
TATTGGTATAACTACACGAGTGATGACTTAATAAACTTTAAACCTGAAGGGCCAATATTA
AATCCAGATACTAAATATGACAGCCATGGTGTATAGCGGTAGCGCTTTTGAATATAAC
GGGCATTTATATTATATGTACACAGGAAATCATCGAGATAATCATTGGCAACGACATGCG
AGTCAGATGATCGCACGATTGAAAGAAGACGGTTTCAGTTGAAAAGTTTCCAAAGCCAGTA
ATTAGCCAGCAACCAGAAGGATATACAAGTCATTTTAGAGATCCTAAAGTTTTTAAATAT
GGTGAGAAATATTATGCAATCATTGGCGCACAAAATAATGATCAGCAAGGTCGATTATTA
CTTTATAATACTGAAGATATAATTAATTGGCATTATTTAGGTGAAATAAATACAGAGTTA
GATGATTTTGGATATATGTGGGAATGCCAGATTACTTTAATTTAGATAATCAAGATGTC
ATACTTATTTGTCCACAAGGTATTGAACCAAAAGGCAATCAGTTCAAAAATATTTATCAA
AGTGTTTATATACTTGGAAAGTTTGATATTGAAAAGTTAACATATGAACATGAAAATTTT

>RXA02028-upstream

TGCGCAGTTCTGCTTAGTTGGCTCATAAATCTAAGGATAAACCGTTATTTTCGGAGGGG
TACGACGATTGGGGTTGCGGGGGCAGGTACTCTTGGTTCC

>RXA02028

ATGAGTTTGCCTATCGATGAGCACGTGAACGCGGTTAAAACCGTCGTAGTGCCTGCTGCA
GGACTGGGAACCCGATTCTTCCGGCCACCAAACCGTACCCAAGGAGTTGCTGCCGGTT
GTCGATACCCAGGTATTGAGCTGATTGCTGCTGAGGCTGCCGAACCTGGTGCAGCCAGG
CTGGCGATCATCACTGCGCCAAACAAAGCTGGGGTACTTGCACACTTTGAGCGTTCTTCT
GAATTGGAAGAAACGCTGATGGAGCGTGGCAAGACTGACCAGGTGGAGATAATCCGCCGC
GCCGCCGATTTAATCAAGGCAGTTCCAGTAACCCAGGACAAGCCGCTGGGGCTAGGTGAT
GCTGTTGGTTTGGCTGAGTCTGTGTTGGATGATGATGAAGATGTCGTAGCGGTGATGTTG
CCGCAC

>RXA02054-upstream

CCTAATGAACAGCCGGAGCACCCCTGGTCGTTTGCAGAATAGGCGCATCGACAACAGCTAC
TAACTCTGCCAGCTCGCCCGGACGAACCTAAGGTAGACGGC

>RXA02054

ATGACTTCTTTGCTTGTGACCGGAGGTGCCGGATTTATCGGGCGCCAACTTCGTCCGCCAA
ACCGTAGAGCAGCACCCCTGAATACACCCACATCACGGTGCTGGATAAACTCACCTAGCGA
GGAACGCCGACAATCTCAAAGGCCTCCCCGACAGCAAAGTAACCCCTCATCGAAGCGGAT
ATCTGCGATGCTGAATTAGTCGACTCCCTGGTCAAAGACCACGACATCACAGTCCACTTC
GCAGCAGAATCCCAACAACGACAACCTCCCTCAACGACCCCTCCCCGTTTGTTCACACTAAC
CTCATCGGCACCTTTGTCTGCTAGAAGCAGTCCGCAAGCACAACAAACGCTTCCACCAC
ATCTCCACCGATGAAGTCTTCGGCGATCTAGAGCTGGATGATCCAAACCGCTTCACTGAA
ACCACCGCCTACAAGCCATCGTCTCCATATTCTGCAACCAAGGCAGGGTCTGATCACTTG
GTACACGCATGGATCCGCTCCTTCGGAATCCAGGCAACCATGTCTAACTGCTCCAACAAT
TACGGTCCCTACCAGCACATTGAAAAGTTCATCCCCCGCCAGATCACCAATATTCTGGCC
GGCCTGACACCAAACTTTATGGAACCGGCGAGCAGGTCCGCGACTGGATCCACGTCGAT

GATCACAATGACGCCGTCCACCTGATCCTGAGTAAGGGCAAGATCGGCGAAACCTACATC
ATCGGCGCCGACAACGATCATGTGAATAACAAGCAGGTCATCGAGCTTATTTGTGAACCTC
ATGGGCCTCGACAAAAACGCATACGAGCACGTGCGAGACCGCCCCGCCACGATATGCGT
TACGCCATGGATTCCACCAAGCTGCGCACCGAGCTCGGCTGGGCACCTAAATACACCGAC
GTTGATTCCGGCATGCGCAAAGGCCTAGAGCAGACCATCGATTGGTACCGCGAAAACGAG
GCCTGGTGGCGCCCTGCCAAGAACAACGTGGAAGCTACCTACGCTAAGCAGGGACAA

>RXA02054-downstream
TAATGGAATACGGTAAACAACCTC

>RXA02055-upstream
AAGGCCTAGAGCAGACCATCGATTGGTACCGCGAAAACGAGGCCTGGTGGCGCCCTGCCA
AGAACAACGTGGAAGCTACCTACGCTAAGCAGGGACAATA

>RXA02055
ATGGAATACGGTAAACAACCTCACCTCCCACACCACCGACATCGAAGGCCTACTGGTTTTTC
GATTTCCCCGTCCACGGCGACAACCGCGGCTGGTTCAAGGAAAATTGGCAGCGCACCAAG
ATGACCAACCTGGGGCTGCCGATTTTGGCCCCGTCCAAAACAACATGAGTTTCAACGCC
ACCGCCGGCAGACTCGCGCATGCACGCTGAGCCGTGGGATAAATTTGTGTCCGTGCGG
GTGGGTTCCGTTTTTCGGAGCTTGGGTGGATCTGCGCGCGGGCTCGAGCACGTACGGTAAC
GTCGTAACGCAAAAAATTACCCCTGACGTGGGAGTTTACGTCCCGCTGGTGTGGCAAAC
GGCTTCCAGGCGCTCGAGGACGGCAGCTGTACACCTACCTCGTCAACGATCATTGGTCC
CCCGACGCGCATTACGCCAACGTCAACCTCAACATGATCGACTGGCCGTGCCCATCACC
GAGATCTCCGAAAAAGATAAAAAACATCCAGCGCTTATCGACGCCACCCCCCTGCCCGCC
CGCAAGGTTCTCGTGGTCGGCGCCGGCGGACAACCTGGGAACCGCGCTACGCGCGCAGTTC
CCAGACGCGGAATTTGTACGCGCCAAGAACTCGATATCACCTCAGATCTCACCAGGGCT
CGCGCGTGGAAACAATACTCCACCATCATAAACGCCGCCCGCTACACTGCCGTTGACCAG
GCAGAACACGACCGCGCAGCAGCGTGGGACATTAACGCGAGCGGCAGTGGCTACCTCGCGA
CCATCGCGCGGACAACAACCTCACCTCGTGCACGTGTCTCAGATTATGTCTTCGACG
GTGCGGGCGAATCTACGATGAAAACGCACCGTTTTTCCCCACTCGGCGTGTACGGCCAAT
CCAAAGCAGCCGGCGACATCG

>RXA02055-downstream
TAAGCAC

>RXA02056
CGCCACTCTGTTCCACGTCTAACCAAGGGCCAGGGCACCATCATCGGTGTCCGTTCCATG
GATTACCCAGCAGAGTTCCAGGGCGCTTCAGAAGACCGCCTTGACAGAGCTCGGCGTTGGC
AAACTTGTACCATCACCTCCACCTACGATCACCGCGTGATCCAGGGTGCTGTGTCCGGT
GAATTCCTGCGCACCATGTCTCGCCTGCTCACCGATGATTCTTCTGGGATGAGATCTTC
GACGCAATGAACGTTCTTACACCCCAATGCGTTGGGCACAGGACGTTCCAAACACCGGT
GTTGATAAGAACACCCGCGTCATGCAGCTCATTGAGGCATACCGCTCCCGTGGACACCTC
ATCGCTGACACCAACCCACTTTTCATGGGTTGAGCCTGGCATGCCAGTTCCAGACCAACCGC
GACCTCGACATCGAGACCCACAACCTGACCATCTGGGATCTGGACCGTACCTTCAACGTC
GGTGGCTTCGGCGGCAAGGAGACCATGACCCTGCGCGAGGTAATGTCCCGCCTCCGCGCT
GCGTACACCTCAAGGTTCGGCTCCGAATACACCCACATCCTGGACCGCGACGAGCGCACC
TGGCTGACAGGACCGCTCGAGGCCGAATGCCAAAGCCAACCCAGGCAGAGCAGAAGTAC
ATCCTGCAGAAGCTGAACGCCGCGGAGGCTTTCGAGAACTTCTGCAGACCAAGTACGTC
GGCCAGAAGCGCTTCTCCCTCGAAGGTGCAGAAGCACTTATCCCACTGATGGACTCCGCC
ATGACACCGCCGACGGCCAAGGCCTCGACGAAGTTGTATCGGTATGCCACACCGTGGT
CGCCTCAACGTGCTGTTCAACATCGTGGGCAAGCCACTGGCATCCATCTTCAACGAGTTT
GAAGGCCAAATGGAGCAGGGCCAGATCGGTGGCTCCGGTGACGTGAAGTACCACCTCGGT
TCCGAAGGCCAGCAGCTGCAGATGTTTCGGCGACGGCGAGATCAAGGTCTCCCTGACTGCT
AACCCGTCCACCTGGAAGCTGTTAACCCAGCGATGGAAGGTATTGTCCGCGCAAAGCAG
GACTACCTGGACAAGGGCGTAGACGGCAAGACTGTTGTGCCACTGCTGCTCCACGGTGAC
GCTGCATTGCGAGGCTGGGCATCGTGCCAGAAACCATCAACCTGGCTAAGCTGCGTGGC
TACGACGTGCGCGGCACCATCCACATCGTGGTGAACAACCATCGGCTTACCACCAACC
CCAGACTCCAGCCGCTCCATGCACTACGCAACCGACTACGCCAAGGCATTCCGGCTGCCCA
GTCTTCCACGTCAACGGCGACGACCCAGAGGCAGTTGTCTGGGTGGCCAGCTGGCCACC
GAGTACCGTTCGCTTCGGCAAGGACGTCTTCATCGACCTCGTCTGCTACCGCCTCCGC

GGCCACAACGAAGCTGATGATCCTTCCATGACCCAGCCAAAGATGTATGAGCTCATCACC
 GGCCGCGAGACCGTTTCGTGCTCAGTACACCGAAGACCTGCTCGGACGTGGAGACCTCTCC
 AACGAAGATGCAGAAGCAGTCGTCCGCGACTTCCACGACCAGATGGAATCTGTGTTCAAC
 GAAGTCAAGGAAGGCGGCAAGAAGCAGGCTGAGGCACAGACCGGCATCACCGGCTCCCAG
 AAGCTTCCACACGGCCTTGAGACCAACATCTCCCGTGAAGAGCTCCTGGAACCTGGGACAG
 GCTTTCGCCAACACCCCAAGAAGGCTTCAACTACCACCCACGTGTGGCTCCCGTTGCTAAG
 AAGCGCGTCTCCTCTGTACCCGAAGGTGGCATCGACTGGGCATGGGGCGAGCTCCTCGCC
 TTCGGTTCCCTGGCTAACTCCGGCCGCTTGTTTCGCCTTGCAAGTGAAGATTCCCGCCGC
 GTACCTTACCCAGCGCCACGCAGTTGCCATCGACCCAGCGACCGCTGAAGAGTTCAAC
 CCACTCCACGAGCTTGACAGTCCAAGGGCAACAACGGTAAGTTTCTGGTCTACAACCTCC
 GCACTGACCGAGTACGCAGGCATGGGCTTCGAGTACGGCTACTCCGTAGGAAACGAAGAC
 TCCATCGTTGCATGGGAAGCACAGTTCGGCGACTTCGCCAACGGCGCTCAGACCATCATC
 GATGAGTACGTCTCCTCAGGCGAAGCTAAGTGGGGCCAGACCTCCAAGCTGATCCTTCTG
 CTGCCTCACGGCTACGAAGGCCAGGGCCCAGACCACTCTTCCGCACGTATCGAGCGCTTC
 CTGCAGCTGTGCGCTGAGGGTTCATGACTGTTGCTCAGCCATCCACCCAGCAAACCAC
 TTCCACCTACTGCGTCTGTACGCTCTGTCCGACCTGAAGCGTCCACTGGTTATCTTACC
 CCGAAGTCCATGCTGCGTAACAAGGTGCTGCCCTCCGACCCAGAAAGACTTCACTGAGGTC
 ACCAAGTTCCAGTCCGTGATCAACGATCCAAACGTTGCAGATGCAGCCAAGGTGAAGAAG
 GTCATGCTGGTCTCCGGCAAGCTGTACTACGAATTGGCAAAGCGCAAGGAGAAGGACGGA
 CGCGACGACATCGCGATCGTTTCGTATCGAAATGCTCCACCCAATTCCGTTCAACCGCATC
 TCCGAGGCTCTTGCCGGCTACCCTAACGCTGAGGAAGTCTCTTTCGTTTCAAGGATGAGCCA
 GCAAACCAGGGCCCCTGCGGCTTCTACCAGGAGCACCTCCAGAGCTGATCCCGAACATG
 CCAAAGATGCGCCGCGTTTCCCGCCGCGCTCAGTCTCCACCGCAACTGGTGTGCCAAAG
 GTGCACCAGCTGGAGGAGAAGCAGCTTATCGACGAGGCTTTCGAGGCT

>RXA02056-downstream
 TAAGTCTTTATAGTCCTGCACTA

>RXA02061-upstream
 TAACCTGCCTTACCTGGGATTATCCACCCATGTGTGATGAAATCGCTACCCTGAATCAA
 AGACACTGGCGTAATTGAGTGAAGGCAGGACAATAAAGAG

>RXA02061
 ATGACGAACGTTTCCGGGTATCACCGACCAGAGCTGCACATCACCGCTGAAAGTGGTGT
 TTGTTTGCACCTGCAGGCGTTCTGTTGGATGACGACACGTGGCATTCTTCCACAGTAC
 CGTCCCTCACCAGATCACGGCCCCAGGTGGGCGCACCAATTCGCAGAGCGCACTCCATTT
 GTGTGGGATATCTGCGATGACGTGCTAGCCCCCTGAAGGCGATGAAACCCAGGTTTCGCGCT
 GGCTCAGTGGTGTCCAACAACGGTGGCGTTGATCTGTACTTCACCTCGGTTGTTGGCCCC
 ACTTCCACTATCCAGTTGGCACACATCAACAACATCCGTGGCACCACCGAACTGATCAAT
 GAGGACGAGCTGGGGCTCGATCCAGATGTCTCCCGAATCGGCGAAGTGGTTGGCAACACT
 GATGGTTATGTAAAGTTCCGCTCACCGTGCGTTATCCAGGTTGGGAAGACCAAGGAAAC
 CGCGATGAAGGCCACTCAGGATGGTTGATGCTCGCAGTTACTGGCCCAGTTGAAGCCCCA
 ACAGTAGTGCTCCTCGACTCGCCAGATGGAAGAGAATGGTCCATTACAGGTCCCCTGTCT
 CTCAACGGCCTCTCTGGATTAGAGTCAGACGAAGTTCTAGTTGCTCCTCGCATGATTCGT
 CTGCGCGATGAAGTGGATCATGAAATCTACGATGTCCTCATTGTACCATTTGAACAAGAC
 GGGATTGACATTTCCGGATACCTGGTAGGCCAGCTCAACGGCTCAGAATTCGATGTGAAG
 ACTCCATTTACCCGCATCGATTTTGGCCATGATTTCTCTCGCCCCGCAACACCAACTAC
 GCCGAAACCACCATCGGCTACGACTTCGCCCACATCTTTGGTCTCATGAATGGCGTAGGT
 CGTTTGGACTCCCCCACTGAGCATCTCAGTTGGAAGGAAGAAGGCTGGGCAAACGCTATT
 TCTTTCCACGTATTGTACGCTCCAGGACGGTACGGTCTTCCAGACCCCTCCAGAAGGA
 TTGCTTGATGCCATTATGAATCCGAGGCAGCGGCAGGTTGGACCGGACTGTGCGAAATC
 CCATCAAACAGCGCAGTTGAAGTGGCGTTGAAGGACCAAGAAGGTGAAATCGCTGCAACA
 ATCACTACCGCCACAATCAGCTAGTCGTTGATCGGTCCATGAACCCCAACCGCGGGT
 GATCCACACGCGATTGCACCATTGACTGATGATGAAACAGATTCACTGTTTATTGTCGTT
 GACGGCTCTACAGTAGAAGTTTTTGTGATGGCGGTTATGTATCAATGGCAAGCCGTGTG
 TATTTCAACAACGGACCATTCAGCGAATTTGAGGTCACCACCACCGGTGACGCAAGCATT
 ATTCGCCAGGAAAGTCACTTCCCTGTTGATTTTCACTTCGGTGTCCCTAGATATAGATGAT
 CTCACTGCGCTCATGCAGTTCGATGAAAACGAACCGCATGAAGGCCCAAGTGAGA

>RXA02061-downstream
 TAAGAGTTAGATGCGTTCCAGCC

>RXA02063-upstream

ACCGAAATGGGGGCATTAAAAGGGGCTATCATTTCGGACCCCCAAAACGATGTTTAGACAAT
TTGTTACCCAGCTTTCATGCGGGATAGTTATTTTGCCTTT

>RXA02063

ATGGTTAAGGGTGTGAAGGGTAGACCAAATGTTCTAGCAATCGTTCTCGCAGGTGGCGAG
GGCAAACGACTTTTTCCGTTGACGGAGGACCGAGCTAAGCCTGCGGTCCCATTCGGCGGA
ACTTACAGATTGATCGACTTTGTTTTGTCGAACCTGGTGAACCTCCGATTTCCTCAAGATC
GCGGTACTGACTCAGTACAAGTCGCATTTCATTGGATAGGCATATTTTCATTGTCGTGGAAC
GTGTCTGGTCCAACGGGGCAGTACATTGCTTCTGTTTCTGCGCAGCAGCGCCTGGGCAAG
CGATGGTTCACTGGTTCCGCGGATGCAATTTTGAGTCTCTGAACTTGATCTCTGATGAG
AAACCGGATTATGTCATCGTTTTTCGGCGCGGACCACGTGTATCGCATGGACCCAAGCCAG
ATGCTAGATGAGCACATTGCATCTGGTTCGCGCGGTGTCTGTGGCAGGTATTCGCGTTCCA
CGTGAGGAAGCAACTGCGTTTGGTTGCATCCAGTCCGATGTGCGACGGCAACATAACCGAG
TTCTTGGAAGCCAGCTGACCCTCCGGGAACCCCTGATGATCCTGACATGACTTACGCG
TCGATGGGTAACTACATTTTCACCACTGAAGCCCTGATCCAGGCGCTGAAAGATGATGAA
AATAACGAGAACAGTGATCATGACATGGGCGGAGACATCATTCCGTACTTCGTCTCTCGC
AATGATGCGCATGTTTATGATTTCTCCGGAACATTGTTTCTGGCGCAACTGAGCGTGAC
AAGGGCTACTGGCGCGACGTGCGTACCATTGATGCGTTTCTACGAGTGCCACATGGACCTG
ATTTCCGTGCACCCAATCTTCAATCTGTATAACTCTGAGTGGCCAATCCACACGACCTCT
GAAGGTAACCTGCCTCCGGCTAAGTTTCGTTTCGGGGCGGTATCGCGCAGTCGTGATGGTG
TCTTCAGGTTCCATCATTTCTGCTGGGACTGTTTCGCAACTCCGTGCTGTCCAACAACGTT
GTCGTGAAGAGGGCGCAACGGTGAAGGTGCAGTGTGATGCCAGGCGTGCGCATCGGT
AAGGGTGCTGTTGTCCGCCATGCGATTCTGGACAAGAACGTGGTTGTCCGCGACGGAGAG
CTCATCGGTGTGACCAAGTGCGCGATGCGCAGCGCTTCAAGGTGAGCGCCGCGGCGCTC
GTGGTTGTGCGTAAGAACCAGGTAGTC

>RXA02063-downstream

TAAACGGGAAGGGACCTTAAAA

>RXA02100

ATTGCTGGTAAGGCACACCCACATGACATGGGTGGCAAGAAGCTCATGCAGGAAATCGTC
CACTTCGCTGATCAAGCTGGTGTCCGTGACCGTTTCTCTTCTCTGCTGATTACGACATC
AACCTGGCCAGTACCTGATCTCTGGTGTGACGTGTGGCTGAACAACCCAGTGCGCCCT
CAGGAAGCATCGGGAACCTCCGGTATGAAGGCCGTCATGAATGGTGGCCTGACCTGTCC
ATCTCTGATGGTTGGTGGGATGAAATGCCTAAGGAGACCACCGGTGGACCATCCCAACC
GTTGAGTCCCAGGACTTGGAATGCCGCGACCACCTGGAATCCCAGGCGCTGTACGACCTG
CTGGAAGAACGAAGTTGCACCGCTGTTTTACAAGCGCGACAAGAACGGCATCCCACAGGAC
TGGCTGGACCTGGTTTCGCGAATCCTGGACCACCTGTCACCAATGGTCACCTCCACCCGC
ATGGTGCGCGACTACACCACCCAGTACTACCGCCCAACCAAAACACCAGGCAGAGCTCATT
GCGCAGCCTGCAGAAGCAGCGGATTACGCGGCATGGCTTGAGCACATCAAAGCAGAGTGG
GCTGGCGTCAAGGTCTCAGACCTGAAGATCAGCGAGAGCGCCATCACGGCGCAGGAGCTT
GAAGTCAGCGTTTCGCGTTGATTCCGGTTTCGCTTAACGACGACGAGTTCCAAGCTCAGGCA
CTCTTTGGTGCGCTCGGACACAACGGTGACATCGAAGATCCAGAAATCACCGTTTTGACC
CCACGCGCGATGGCGCTACGCGGCAAGGTGACACTGACCTGCCAGGCAACTACGGC
ATCACTGCCCCGCTTGTTCAAACAACAGGATGCTGGTCAGCCCAGCGGAAACCCGCGCTG
ATCACCTACTTGAGAAC

>RXA02100-downstream

TAGGGCGAACTAGCTTTACCAA

>RXA02113

CTAGGTCAATCAACGCCGAGGAGCAAAACCTCAGCGAATACCTCAGCGACAAGCTGTGG
TACCAGGACACCGCAGATGCAACCGATGCTGTGCGAGATCCACTCGTTGCGTACTTCTCC
ATGGAGTTTGGCATTACCCAAAGCTGCCAATCTACTCTGGCGGACTTGGTGTGCTTTCGCG
GGCGAGAACATGAAGTCTGCATCTGACTTGGGTGTGCCACTGATCGGTGTTGGTTTGCTC
TACACCCACGGTACTTACCCAGTCACTGTCCGGTGACGGTTGGCAGCAGGAAGAGTAC
AAGTACCACGATCCAGCAGAACTGCCGATTGAGGCAGTTAAAGATAAGAACGGCGAGCAG
GTCATGTTTCTGTACCTACCCAGGTGCGCAGGAAGTAAAGATTGCACTGTGGGTAGCA
AACGTTGGCCGCATCCCATGTCTGCTTGATACCAACATCGAGGCAAACCCAGAAGAG

CTCCGCAACGTTACTGACCGCCTGTACGGTGGCGACAATGAGCACC GCATCAAGCAGGAA
 CTCGTTCTCGGTGTTGGTGGCGTCCGCGCTGTCAACGCATTCTGCGAAGCTCGTGGTCTG
 AAGCGCTCATCTGTTGCACACCTCAACGAAGGCCACGCAGGTTTCTGACCCTGGAGCGT
 ATCCGCGAGCGCATCGCAGAGGGCATGGAGTACCCAGCAGCATTTCGAGCAGGTTCTGTGCG
 TCCAACATCTTCACCACCCACACCCAGTCCCAGCAGGCATCGACCGCTTCGACATGGAG
 ATGGTGCCTGCTTATCTCGGTGGCGGTGAGCCAGAAGATCAGCAGCTGTGCGTTGGTGT
 CCAATTGAGAAGGCACTTGAGCTTGGTCAAGAGTCCGATCCACACCGCTTCAACATGGCT
 CATATGGGCCTTCGCGCGAGCCAACATGCTAATGGCGTCGCAAAGCTTCATGGTGAAGTA
 AGCGGTGACATGTTTCGCGCGCTGTACCCCGGATATGAGCCTCGTGAAGTGCCCATCGGG
 CACGTACCAACGGTGTTACCTGCCGACGTGGGTCAAGCCAGAGATGAAGGAACATCATC
 GATCGCGTCACTGGCGGCGTGATCTTGCGGTTGCTGATTCTTGGTCAAACCCACAGGCT
 GTCGAGTCTGAGAAGATCTGGAAGGTGCGCAACAAGTTCCGTGCTGACCTAGTGGAGGTT
 GCTCGC

>RXA02122-upstream

GGCCTTCAGCTCACCGACAGTTTGTACATTTGGTGGAAGACTCACACCCACACCCTAGA
 CCTTTTTTTAAGTGGGCGGTCAGGAATTTTTCGCACAGGT

>RXA02122

ATGCTGCATGTCATGAAGCCGGGTTACACGCAGCTGCCGAAAAGACTCAATCCACTGTG
 GTTTTACTCATTTCGGCATGGGCAAACCCCAACAACCTGGTCAGGTTCTGCCTGGTCAGACG
 CCGGGTTTACACCTGTCTGATAAGGGTGAAGAGCAGGCGCGGGAGGTGGCACAGCGTCTG
 GCGGAGGTGCCGATTACCGCTGTGTATTCATCGCCGATGGAGCGTGCGCAGGAAACAGCA
 GCACCGACGGTCAGCGCTCATGGCCTCGAGTTGACGGTGGAACCTGGGCTTATTGAATGC
 GATTTTCGGCGAGTGACGGGCGGAACTAAGTGAAGTCAATGCCCTAGAGGAGTGGA
 GCGGTGCAGAAGACACCGTCTACCTTCAGGTTTCCAGGTGGTGAGAGTTTCGTGGAAATG
 CAGGATCGGATGGTGGAGGCTATCGGCAACATTGCGCAGCAGCATCCGGGAGAAATCGTT
 GCTGCGTTTGTAGTTCATGCCGACACGATCAAGGCTGCGGTGGCTCATTTTGTAGGCACTCCA
 CTGGATTCTTTTCAGCGCATTTTCATCGACACGGCGTCAATTTCCGCAGTGGAATTTACC
 GGGAAATCTTCAGGCGTCTCCTCCCATATGCTGCTGACAAATTCAGAACAGGATCGTTG
 GGATACCTTCGAGACAACTTCCGAAAGCTCCGCAACCA

>RXA02122-downstream

TGATCACCTCACCATTTGAGCGC

>RXA02140-upstream

AACACAAGATATGGAATCGGCTGGCAAATAGGCTATTCTGCGAAGATAGAAATGACCGTA
 AGGTCTCTGGTTTTTGTGTGGACAGGAAGGCAGAACACAC

>RXA02140

GTGGAACAGCAAAATAAGCGTGGTTTTAAAGCGCAAGGCCCTGCTTGGCGGTGTCTTGGGC
 TTAGGTGGCCTCGCCATGGCAGGCTGTGAAGTCGCCCCCTCCTGGCGGTGTGCTTGGAGAT
 TTCCTACGTATGGGTGGCTGATGGCATTACCCCTGAAGCAGTGCCATGGGTAACTTC
 TGGTCATGGGTCTGGGTGCTGCCTGGATCATCGGCATCATCATGTGGGGTCTATTCCCTC
 ACCGCCATCTTTGCTGGGCGCAAAGAGGGCTGAAAAGCGCGGCGAGGGTGAATTCCTT
 AAGCAGCTCCAGTACAACGTTCCACTTGAGCTCGTTCTGACGATCGTTCCGATCATCAT
 GTTATGGTGTGTTCTTCTTACCGTTCAAACCTCAGGACAAGGTCACCGCTCTGGATAAG
 AACCCAGAGGTTACCGTGGACGTACCGCTTACCAGTGGAAGTGGAGTTTCGGATACTCC
 GAAATTGATGGCTCACTGGCACCTGGTGGACAGGATTACCAAGGAAGCGACCCGGAGCGT
 CAGGCAGCTGCCGAGGCTTCCAAGAAGGATCCTTCTGGAGATAACCCAAATTCACGGCAAC
 TCAAAGTCTGACGTTTCTTACCTTGAGTTCAACCGAATTGAAACCTTCGGAACCACTGAT
 GAAATCCCAGTATGGTTCTTCTGTGAACACCCCAATCGAGTTCAACCTCGCATCTGCT
 GACGTTGCACACTCCTTCTGGGTCCAGAGTTCTTCTTCAAGCGAGATGCTTACGCACAC
 CCTGAGGCAAAACAAGTCCCAGCGTGTCTTCCAGATTGAAGAGATCACTGAGGAAGGCGCA
 TTCGTTGGTGCCTGTGCAGAAATGTGCGGTACTTACCACGCAATGATGAACTTCGAGCTT
 CGTGTGCTCGATCGCGATTCTTCTGCTGAGTACATCAGCTTCCGTGACTCCAACCCAGAC
 GCAACCAACGCTCAGGCACTTGAGCACATTGGTCAAGCTCCTTACGCTACTTCCACTAGC
 CCATTTCGTTTCCGATCGCACCGCAACCCGCGACGGCGAAAACACTCAGAGCAACGCT

>RXA02140-downstream

TAAGAAGGAGTGGCGAAAAAATG

>RXA02142-upstream

ACGAAAAGTTCCCGGAAGGTCGATTGAAAAGTTTGCGAATTGGGGGAAAATTCGCATCAA
AAGCCGAGTTCAAACCTTCAATTGAAACGGGGGGCTTGAA

>RXA02142

GTGACTTTGGCCAACCAAACAGCCATACTAGATAGCGTGACGAGCGCAGTTGGAAATACA
GGTATGGCAGCACCACAACGTGTTGCGGCACCTGAACCGTCCGAATATGGTCAGTGTCCGGC
ACCATTTGTGTTCCCTGTCTCAGGAATTAATGTTCTTCGCCGGGCTATTTCGCGATGTACTTC
GTGTCCCGTGCGAACGGACTGGCAAATGGATCATGGGGAGAGCAGACAGATCACCTCAAC
GTGCCCTACGCACTGTTGATTACGGTCACTTCTGGTGTCTTCCTCAGTGACTTGCCAGTTC
GGAGTTTTTTCGGGCTGAAAGGGGTGACGTTTACGGCCTCCGCAAGTGGTTCTTGGTACG
ATTATCCTCGGATCAATCTTCGTGATCGGACAGGGCTACGAGTACATCACTCTCGTAGGT
CACGGACTTACAATCCAGAGCAGTGTCTACGGATCGGCATTCTTTATTACAACCGGTTTC
CACGCACTGCACGTGATCGCGGGTGTATGGCCTTCGTTGTGGTTCTTATGAGAATCCAT
AAGTCGAAGTTCACTCCGGCACAGGCAACCGCAGCAATGGTTGTGTCTTATTACTGGCAC
TTCGTTGACGTGGTCTGGATCGGCCTCTTCATCACTATTTACTTCATTACG

>RXA02142-downstream

TAGGCAGTAAGGAATCCTCAACG

>RXA02143-upstream

TCTTCATCACTATTTACTTCATTACAGTAGGCAGTAAGGAATCCTCAACGTTGTTGAGGTT
CCCTATGCCCTTCACTTCCACAGTCGAGATTCAAAGGGAA

>RXA02143

ATGATGGAAACCAACCCGCAGACCCAGAGGGAAATAGCATGGCTAAACCCCTCTGCTAAG
AAGGTCAAGAATCGCCGCAAGGTCCGGCGCACCGTTCGCAGGTGCATTGGCTCTGACCATT
GGACTGAGCGGAGCAGGAATCCTCGCAACCGCGATCACTCCAGATGCTCAAGTTGCTACC
GCTCAGCGTGACGATCAGGCACTTATCTCCGAGGGTAAAGACCTCTACGATGTGCGCTGC
ATCACCTGCCACGGCGTAAACCTCCAAGGTGTTGAGGACCGCGGTCTTCCCTCGTAGGT
GTTGGCGAAGGCGCAGTGTACTTCCAAGTTCACTCCGGCCGTATGCCAATACTGCGTAAC
GAGGCTCAGGCTGAGCGCAAGGCTCCTCGTTACACCGAGGCACAGACCCCTTGCGATCGCT
GCATATGTTGCAGCTAATGGCGGTGGCCCAGGACTCGTTTACAACGAGGACGGCACCCCTC
GCCATGGAGGAGCTCCGTGGCGAAAACCTACGACGGACAGATTACCTCCGCCGACGTGCT
CGCGGCGGAGATCTGTTCCGCCTGAAGTGTGCATCCTGCCACAACCTCACTGGTCTGGT
GGCGCACTGTCTCTGGTAAGTACGCACCAAACCTGGATGCTGCAAACGAGCAGGAAATC
TACCAGGCTATGCTTACCGGTCTTCAGAACATGCCTAAGTTCTCCGATCGTCAGCTCTCC
GCAGATGAGAAGAAGGACATCATCGCCTTCATCAAGTCCACCAAGGAGACTCCATCACCT
GGTGGTTACTCACTCGGTAGCTTGGGCCAGTGGCTGAGGGTCTGTTTATGTGGGTATTC
GGCATCTTGGTCTCGTGGCCGCCGCTATGTGGATTGGATCACGTTCA

>RXA02143-downstream

TGAGTAACAACAACGACAAACAG

>RXA02144-upstream

ACTCACTCGGTAGCTTGGGCCAGTGGCTGAGGGTCTGTTTATGTGGGTATTTCGGCATCT
TGGTCTCGTGGCCGCCGCTATGTGGATTGGATCACGTTT

>RXA02144

ATGAGTAACAACAACGACAAACAGTACACAACCCAAGAACTCAACGCGATGAGCAATGAG
GATCTTGCACGACTTGGTACAGAGCTGGACGACGTTACCATTGCATACCGCAAGGAACGT
TTCCCAATCGCTAATGACCCAGCTGAGAAGCGCGCTGCACGTGCAGTTACTTTCTGGCTA
GTCCTCGGCATCATTGGTGGACTTGGGTTCCTGGCTACCTACATTTTCTGGCCTTGGGAG
TACAAGGCACACGGAGATGAAGGTCTCCTGGCGTACACCTTGTACACCCAATGCTGGGT
ATTACTTCCGGTCTTTGCATCCTGTCCCTGGGATTTGCAGTTGTCTTTATGTCAAGAAG
TTCATTCCAGAGGAAATCGCAGTACAGCGTCGCCACGACGGTCTTCTGAAGAAGTTGAC
CGCCGCACCATCGTTGCACTTCTCAATGACTCTTGGCAGACCTCTACTCTTGGTCTGCGC
AAGCTGATCATGGGACTTGCAGGTGGCGGAGCAGTACTGGCCGGCCTGACCATCATCGCT
CCAATGGGCGGTATGATCAAGAACCCTTGGAAATCCTAAGGAAGGCCCAATGGACGTTACG

GGTGACGGCACCCCTGTGGACTTCCGGTTGGACTCTCGTTGAGAACGACGTCAAGGTTTAC
 CTCGGCCGCGACACTGCAGCAATTGCGGAGTCCCACACCGATGCAACCGGTGAGCACTGG
 TCAACCACTGGTGTTCCTCCGCTGGTTCGTATGCGCCCAGAAGATCTGGCAGCAGCATCC
 ATGGAACTGTCTTCCCACTTCCAGCTGAAATGGTGAACGACGGTGCTGAATACGATCCT
 GCGAAGGACGTCTACGAGCACCAATGCACTCGGTGCACGGCCACGCAACGCAGTTATG
 TTGATCCGTCTCCGTACCGCTGACGCTGAAAAGGTTATCGAACGCGAAGGCCAGGAGTCC
 TTCCACTACGGTGACTACTACGCTTACTCCAAGATTTGTACACACATTGGTTGCCCAACC
 TCACTGTACGAGGCTCAGACCAATCGTATTCTGTGCCCATGTACCCAGTCGCAGTTTGAC
 GCATTGCACTACGGAAGCCAGTCTTTGGACCTGCTGCCCGTGCACTGCCACAGCTGCCA
 ATTACCGTTGATGAAGAGGGCTACCTCATCGCCGCTGGTAACTTCATTGAGCCACTCGGC
 CCTGCATTCTGGGAGCGTAAGTCA

>RXA02144-downstream
 TGAGTCTAGCTACCGTGGGAAAC

>RXA02147-upstream
 AAAAGTTGAGAGCGGCTTGCTTCTTTTCCTTGGCTAGGCTTTTGTAAATCGGGTTAGAGTA
 GTGGAGTTGCTTGAATGAGGTTGATAGGGGATTTTGAAG

>RXA02147
 ATGTTTGGTGCCTGTTGGGTGAGCGTTGTGGCGTCATGTGTTATCGCAAGCACGCTGATT
 CTGGTGCTTCGCATTCCGGTGCGGAGGAAGTGCATCAACTGATTGCTGATATCGAGCAT
 GTCTCTCAGGAAACGTCTGCCAGAATGAGGAAGTCAAACAGCTTGAGATTGATATTGAG
 GCTCGTGAGGTACGATCAAGGAAGTTCAGGAGCAGTCGGTAAGCTACCGTGAGGCGGCT
 GATCAAGCATCGGAGAATGTCGAAGCTTATCGTTCCGAGATCAATCGGATCGCTCAGGCG
 AAGTATCGTGGCACAGTCACGGATCCTTTGAGCATTGCGGTGTCTGCAGAAGATCCACAA
 AACGTGATTGATCGGATGAGCTACCTTTCAACGTTGACTAAGTCCACTAGTGATGTGGTT
 GAATCCCTCAACGCGGAGACTGAGAAGTCCGCAGAAGCTGTGTATCAAGCAAACCGTACT
 AAGGCGGAAGCGGAGTTCCAGTTGGGGCAGCTGAAGGTACGCCAGGCGGAGCTTGAATCT
 GAAAAGGAAGCATTGGATGGTTCGAAAATCGGAGATCCGAGACCGGGTGGATGCCCTGACG
 CCACAGGAGCGGGAAATGTGGGTTGCTAAGAATGGTCCATTGGACATTGATCTGACTGAT
 TTGCTTGGTCTTTCCGCTGCGACTTCGGGTGCGGTGGATGCTGCCTTGTCTAAGTTGGGA
 AGCCCTTATGGTTGGGGTGGCATTGGCCCAAATGAGTTTGATTGCTCAGGTTTGATCTAT
 TGGGCGTATCAGCAGATGGGTAAAGACTTTGCCACGTACGTCTCAAGCTCAGATGGCTGGC
 GGAACGCCGGTGAGCAGAGATGAGCTGCAGCCTGGCGATGTCAATTGGATATTACCCAGGT
 GCTACTCAGTGGGACTGTATATTGGGGACGGAAAGATTGTGCACGCCCTCAGACTACGGA
 ATCCCTGTGCAGGTGGTATCTGTTGATTACGACCCGTTTTATGGTGCGCGTCGCTAC

>RXA02147-downstream
 TAAGAAATAGTTTCGTCAGGAGAA

>RXA02149-upstream
 TTGCAGAGTGAACCACGATGATGGTTGGACAGCTGTTGATAGCTAATCTTTGAAAGATTA
 AATTCACCTAAATCCTGTGTAGAACGCGAGGGGCACTCTT

>RXA02149
 ATGCCACAAAAACCGGCCAGTTTCGCGGTGGGCTTTGACATCGGCGGCACCAACATGCGA
 GCCGGGCTTGTCGACGAATCCGGGCGCATCGTGACCAGTTTGTGCGCGCCGTCGCCGCGC
 ACGACGCAGGCAATGGAACAGGGGATTTTTGATCTAGTCGAACAGCTCAAGGCCGAATAC
 CCGGTTGGTGCTGTGGGACTTGCCGTCGCGGGATTTTTGGATCCTGAGTGCGAGGTTGTT
 CGATTTGCCCCGCACCTTCCTTGCGCGCATGAGCCAGTGCGTGAAAAGTTGGAACCTT
 TTGGGCTGCCTGTTTCGTTTGGAAACATGATGCCAACTCAGCAGCGTGGGGTGAGCATCGT
 TTTGGTGCACTCAAGGCGCTGACAACTGGGTTTTGTTGGCACTCGGCACTGGAATTGGT
 GCAGCGTGATTGAAAAAGGCGAAATTTACCGTGGTGATATGGCACGGCACCAAGATTT
 GGTCAATTTGCGTGTTGTTTCGTGGCGGACGCGCATGTGCGTGTTGGCAAAGAAGGCTGCCTG
 GAGCGTTACTGTTCCGGTACTGCCTTGGTTTACACTGCGCGTGAATTGGCTTCGCATGGC
 TCATTCCGCAACAGCGGGCTGTTTGACAAGATCAAAGCCGATCCGAATTCCATCAATGGA
 AAAACGATCACTGCGGCAGCGCGCAAGAAGACCCACTTGCTCTCGCCGTTCTGGAAGAT
 TTCAGCGAGTGGCTGGGCGAACTTTGGCGATCATTGCTGATGTCTTGACCCAGGCATG
 ATCATCATTGGTGGCGGACTGTCCAATGCTGCCGACCTTTATTTGGATCGCTCGGTCAAC
 CACTATTCCACCCGCATCGTCGGCGCAGGATATCGCCCTTTGGCACGCGTTGCCACAGCT

CAGTTGGGTGCGGATGCTGGCATGATCGGTGTCGCTGATCTAGCTCGACGCTCTGTAGTG
GAAGCCAAC

>RXA02149-downstream
TAGGTGTTTTTTCGGTGGGCTGCG

>RXA02175-upstream
TGACATGCGCTTGGCGCATCCCAGTTGGTAAGAATAAACGGGACTACTTCCGTAATCCGG
AAGAGTTTTTTTCCGAACAAATATGTTTGAAAGGGATATC

>RXA02175
GTGGCTACTGATAACAACAAGGCTGTCCTGCACTACCCCGGTGGCGAGTTCGAAATGGAC
ATCATCGAGGCTTCTGAGGGTAACAACGGTGTTGTCCTGGGCAAGATGCTGTCTGAGACT
GGACTGATCACTTTTGACCCAGGTTATGTGAGCACTGGCTCCACCGAGTCGAAGATCACC
TACATCGATGGCGATGCGGGAATCCTGCGTTACCGCGGCTATGACATCGCTGATCTGGCT
GAGAATGCCACCTTCAACGAGGTTTCTTACCTACTTATCAACGGTGAGCTACCAACCCCA
GATGAGCTTCAACAAGTTTAAACGACGAGATTGCCACCACACCCCTTCTGGACGAGGACTTC
AAGTCCCAGTTCAACGTGTTCCACGCGACGCTCACCAATGGCAACCTTGGCTTCCCTCG
GTTAACATTTTGTCTACTACTACCAGGACCAGCTGAACCCACTCGATGAGGCACAGCTT
GATAAGGCAACCGTTTCGCTCATGGCAAAGGTTCCAATGCTGGCTGCGTACGCACACCGC
GCACGCAAGGGTGCTCCTTACATGTACCCAGACAACCTCCCTCAATGCGCGTGAGAACTTC
CTGCGCATGATGTTTCGGTTACCCAACCGAGCCATACGAGATCGACCCAATCATGGTCAAG
GCTCTGGACAAGCTGCTCATCCTGCACGCTGACCACGAGCAGAACTGCTCCACCTCCACC
GTTTCGTATGATCGGTTCCGCACAGGCCAACATGTTTGTCTCCATCGCTGGTGGCATCAAC
GCTCTGTCCGGCCCACTGCACGGTGGCGCAAACCAGGCTGTTCTGGAGATGCTCGAAGAC
ATCAAGAGCAACCACGGTGGCGACGCAACCGAGTTTATGAACAAGGTCAAGAACAAGGAA
GACGGCGTCCGCCTCATGGGCTTCGGACACCGCGTTTACAAGAACTACGATCCACGTGCA
GCAATCGTCAAGGAGACCGCACACGAGATCCTCGAGCACCTCGGTGGCGACGATCTTCTG
GATCTGGCAATCAAGCTGGAAGAAATTGCACTGGCTGATGATTACTTCATCTCCCGCAAG
CTCTACCCGAACGTAGACTTCTACACCGGCCTGATCTACCGCGCAATGGGCTTCCCAACT
GACTTCTTACCGTATTGTTTCGCAATCGGTGCTCTGCCAGGATGGATCGCTCACTACCGC
GAGCAGCTCGGTGCAGCAGGCAACAAGATCAACCGCCACGCCAGGTCTACACCGGCAAC
GAATCCCGCAAGTTGGTTCCCTCGCGAGGAGCGC

>RXA02175-downstream
TAAATTTAGCGGATGATTCTCGT

>RXA02196-upstream
TCTACCACCCAGAGGCAAAGTACTTTAACGTCTAACACCTTTGAGAGGGAAAACCTTTCCC
GCACATTGCAGATCGTGCCACTTTAACTAAGGTTGACGGC

>RXA02196
ATGATTAAGGCGATTTTCTGGGACATGGACGGCACGATGGTGGACTCTGAGCCACAGTGG
GGCATTGTACCTACGAGCTCAGCGAAGCCATGGGCCGCGCCCTCACCCCGGAGCTCCGG
GAATCACCCTCGGCTCGAGCCTGCCGCGCACCATGCGCTTATGCGCAGAGCACGCAGGC
ATTACATTGAGCGACGCGGACTACGAGCGCTACCGGGCTGGCATGTTGCCCCGGGTCCAT
GAGCTTTTTCGACGAATCCCTCGTCCCAAATCCAGGCGTCACCGAACTCCTGACAGAGTTG
AAGGCCCTCGAGATCCCCATGTTGGTCACCACCAACACAGAGCGCGATCTCGCGACCCGT
TCAGTCGACGCGTGGGAAATGAGTTCTTTCATCGGTTCTATCGCTGGTGATGAAGTCCCA
ACAGCAAAGCCAGCCCCCGACATGTACCTCGAAGCAGCACGACGTGTGGGCTTTGACCCA
TCAGAGTGCTCGTGTTCGAAGATTCCTACAACGGCATGCTGGGCGCTGTTACTGCAGGT
TGCCGCGTCATTGGTCTGCACCCAGAAGAAGTCCAAGCGCCAGAAGGTGTAGTGCCCTTG
CGTTCCCTCCACGGTAAAACTCTTTTGAAGGTGTACCCGCTGAGATGGTCACTGCCTGG
TACCACCAGATCGAGCCGGCAGGTGTGCAAAA

>RXA02196-downstream
TAAACCAGGTGGGGGAGTGAAA

>RXA02209
GTTGTTCTTCCATCGCTGGCCCTAAGCGCCACAGGACCGCATCCTTCTCTCCGAGGCA
AAGGAGCAGTTCCGTAAGGATCTGCCAACCTACACCGACGACGCTGTTTCCGTAGACACC

TCCATCCCTGCAACCCGCATGGTTAACGAAGGTGGCGGACAGCCTGAAGGCGGCGTCGAA
GCTGACAACACTACAACGCTTCCTGGGCTGGCTCCGGCGAGTCCTTGGCTACTGGCGCAGAA
GGACGTCCTTCCAAGCCAGTCACCGTTGCATCCCCACAGGGTGGCGAGTACACCATCGAC
CACGGCATGGTTGCAATTGCATCCATCACCTCTTGACCAACACCTCTAACCCATCCGTG
ATGATCGGCGCTGGCCTGATCGCACGTAAGGCAGCAGAAAAGGGCCTCAAGTCCAAGCCT
TGGGTTAAGACCATCTGTGCACCAGGTTCCCAGGTTGTGACGGCTACTACCAGCGCGCA
GACCTCTGGAAGGACCTTGAGGCCATGGGCTTCTACCTCTCCGGCTTCGGCTGCACCACC
TGTATTGGTAACCTCCGGCCCCACTGCCAGAGGAAATCTCCGCTGCGATCAACGAGCACGAC
CTGACCCGCAACCGCAGTTTTGTCCGGTAACCGTAACCTTCGAGGGACGTATCTCCCTGAC
GTTAAGATGAACCTACCTGGCATCCCCAATCATGGTCATTGCTTACGCAATCGCTGGCACC
ATGGACTTCGACTTCGAGAACGAAGCTCTTGACAGGACCAGGACGGCAACGACGTCTTC
CTGAAGGACATCTGGCCTTCCACCGAGGAAATCGAAGACACCATCCAGCAGGCAATCTCC
CGTGAGCTTTACGAAGCTGACTACGCAGATGTCTTCAAGGGTGACAAGCAGTGGCAGGAA
CTCGATGTTTCTACCGGTGACACCTTCGAGTGGGACGAGAACTCCACCTACATCCGCAAG
GCACCTTACTTCGACGGCATGCCTGTGACGACGAGTGGCAGTCACCGACATCCAGGGCGCA
CGCGTTCTGGCTAAGCTCGGCGACTCTGTACCACCGACCATCTCCCCTGCTTCCTCC
ATTAAGCCAGGTACCCCTGCAGCTCAGTACTTGATGAGCACGGTGTGGAACGCCACGAC
TACAACCTCCCTGGGTTCCAGGCGTGGTAACCACGAGGTCATGATGCGCGGCACCTTCGCC
AACATCCGCCTCCAGAACCAGCTGGTTGACATCGCAGGTGGCTACACCCGCGACTTCACC
CAGGAGGGTGCTCCACAGGCGTTCATCTACGACGCTTCCGTCAACTACAAGGCTGCTGGC
ATTCCGCTGGTTCGTCTTGGGCGGCAAGGAGTACGGCACCGGTTCTTCCCGTGACTGGGCA
GCTAAGGGCACTAACCTGCTCGGAATTCGCGCAGTTATCACCGAGTCCTTCGAGCGTATT
CACCGCTCCAACCTCATCGGTATGGGCGTTGTCCCACTGCAGTTCCCTGCAGGCGAATCC
CACGAGTCCCTGGGCTTGACGGCACCGAGACCTTCGACATCACCGGACTGACCGCACTT
AACGAGGGCGAGACTCCTAAGACTGTCAAGGTCACCGCAACCAAGGAGAACGGCGACGTC
GTCGAGTTCGACGCAATTTGTCCGCATCGACACCCAGG

>RXA02209-downstream
TGAGGCTGACTACTACCGCCACG

>RXA02213-upstream
TTCTGTGGAATGAGAATCCGATGTTTTTCTCACGCCGGCTCAGCCGAAGCAGACGCCGTC
GCGAAATCTCACCTAAAAAAGTTAGAATTGGAGCTCACT

>RXA02213
GTGACTGAAAGCAAGAACTCCTTCAATGCTAAGAGCACCCCTTGAAGTTGGCGACAAGTCC
TATGACTACTTCGCCCTCTCTGCAGTGCCTGGCATGGAGAAGCTGCCGTACTCCCTCAAG
GTTCTCGGAGAGAACCTTCTTCGTACCGAAGACGGCGCAAACATCACCAACGAGCACATT
GAGGCTATCGCCAACTGGGATGCATCTTCCGATCCAAGCATCGAAATCCAGTTACCCCCA
GCCCCGTGTTCTCATGCAGGACTTCACCGGTGTCCCTTGTGTAGTTGACCTCGCAACCATG
CGTGAGGCAGTTGCTGCACTCGGTGGCGACCCCTAACGACGTCAACCCACTGAACCCAGCC
GAGATGGTCATTGACCACTCCGTCATCGTGGAGGCTTTTCGGCCGCCAGATGCACTGGCT
AAGAAGCTTGAGATCGAGTACGAGCGCAACGAGGAGCGTTACCAGTTCCTGCGTTGGGGT
TCCGAGTTCCTTCCAACCTCCGCGTTGTTTCTCCAGGAACCGGTATCGTCCACCAGGTC
AACATTGAGTACTTGGCTCGCGTCGTCTTCGACAACGAGGGCCTTGCATACCCAGATACC
TGCATCGGTACCGACTCCACACCAACCATGGAACCGGCTGGGCATCCTGGGCTGGGGC
GTTGGTGGCATTGAGGCTGAAGCAGCAATGCTCGGCCAGCCAGTGTCCATGCTGATC

>RXA02245-upstream
GCCACACCGCCACGGCACCGATGCGATGTTTGTGGCAGTGCTGCGAAAGAAGTAGACCTG
TGAGCTAAGTGGGGTAGACAAGAGGGCTATGATTTAGGGC

>RXA02245
ATGGCACAACGTAATCGCCCCATCCATTCTTGCTGCTGATTTCTCCCGCTTA
GGGAGCAGGTGTTGGCTGTTCCTGATGCTGACTGGATTACGTCGACATCATGGACGGA
CACTTCGTTCCAAACTTGAGCTTTGGCGCGGATATCACAGCTGCGGTCAACCGCGTTACG
GACAAAGAACTAGACGTCCACCTGATGATCGAAAACCCAGAGAAGTGGGTGGACAACCTAC
ATCGACGCTGGCGCGGACTGCATTGTTTTCCACGTTGAAGCCACCGAAGGTCACGTTGAG
TTGGCTAAGTACATCCGTTCCAAGGGTGTGCGTGCAGGTTTCTCCCTGCGCCCTGGAACCT
CCCATCGAGGATTACTTGGATGACCTCGAGCACTTCGATGAAGTCATCGTCATGAGCGTC
GAGCCTGGATTCCGTGGCCAAAGCTTCATGCCTGAACAACCTGGAAAAGGTTTCGTACCCTG

CGCAAGGTCATCGATGAGCGCGGTCTGAACACCGTCATCGAGATCGACGGCGGCATTAGC
GCCAAGACCATCAAGCAGGCTGCCGACGCTGGCGTGGATGCCTTCGTTGCAGGTTCCGCT
GTGTACGGCGCTGAGGATCCCAACAAGGCGATCCAGGAGTTGCGAGCACTCGCGCAG

>RXA02245-downstream
TAAATGGATGTTGCGCACGCGTT

>RXA02256-upstream
TTGGGTTCTGTCTAGCTCAAGAATTCTTGAGTGACCGATGCTCTGATTGACCTAACTGCTT
GACACATTGCATTTCTTACAATCTTTAGAGGAGACACAAC

>RXA02256
ATGACCATTCTGTGTTGGTATTAACGGATTTGGCCGTATCGGACGTAACCTTCTTCCGCGCA
GTTCTGGAGCGCAGCGACGATCTCGAGGTAGTTGCAGTCAACGACCTCACCGACAACAAG
ACCTTTTCCACCCTTCTCAAGTTCGACTCCATCATGGGCCGCTTGGCCAGGAAGTTGAA
TACGACGATGACTCCATCACCGTTGGTGGCAAGCGCATCGCTGTTTACGCAGAGCGCGAT
CCAAAGAACCTGGACTGGGCTGCACACAACGTTGACATCGTGATCGAGTCCACCGGCTTC
TTCACCGATGCAAACGCGGCTAAGGCTCACATCGAAGCAGGTGCCAAGAAGGTCATCATC
TCCGCAACCAGCAAGCAACGAAGACGCAACCTTCGTTTACGGTGTGAACCACGAGTCCTAC
GATCCTGAGAACCACAACGTGATCTCCGGCGCATCTTGCAACCACCAACTGCCTCGCACCA
ATGGCAAAGGTCCTAAACGACAAGTTCGGCATCGAGAACGGCTCATGACCACCGTTTAC
GCATACACTGGCGACCAGCGCTGCACGATGCACCTCACCGCGACCTGCGTCGTGCACGT
GCAGCAGCAGTCAACATCGTTCTTACCTCCACCGGTGCAGCTAAGGCTGTTGCTCTGGTT
CTCCAGAGCTCAAGGGCAAGCTTGACGGCTACGCACTTCGCGTTCCAGTTATCACCGGT
TCCGCAACCGACCTGACCTTCAACACCAAGTCTGAGGTACCGTTGAGTCCATCAACGCT
GCAATCAAGGAAGTGCAGTCGGCGAGTTTCGGCGAGACCTGGCTTACTCCGAAGAGCCA
CTGGTTTCCACCGACATCGTCCACGATTCCACGGCTCCATCTTCGACGCTGGCCTGACC
AAGGTCTCCGGCAACACCGTCAAGGTTGTTTCTGGTACGACAACGAGTGGGGCTACACC
TGCCAGCTCCTGCGTCTGACCGAGCTCGTAGCTTCCAAGCTC

>RXA02256-downstream
TAATTAGTTTACATCGCTAACGT

>RXA02257-upstream
ATACCGGTGCCAGGCCACACAATGTGTGGCAATCTGGGACAGTGCATCACATTGCACCA
GAAGAATTTTTTAAACAATCAAATCTCCAAGGAGTACGGC

>RXA02257
ATGGCTGTTAAGACCCTCAAGGACTTGCTCGACGAAGGCGTAGACGGACGCCACGTCATC
GTTTCGATCTGACTTCAATGTTCCCTCAACGATGACCGCGAGATCACCGATAAGGGCCGA
ATCATTGCCTCCCTACCAACCCTTAAAGCACTGAGCGAAGGTGGCGCAAAGGTCATCGTC
ATGGCTCACCTTGGCCGCCCCAAAGGGCGAGGTCAACGAGAAGTACTCCCTCGCACCTGTC
GCTGAGGCACCTCCGATGAGCTTGGCCAGTACGTTGCACTTGCCGCAGACGTTGTTGGC
GAAGACGCACACGAGCGCGCAAACGGCCTGACCGAGGGCGACATCCTGCTCCTGGAGAAC
GTGCGCTTCGACCCACGCGAAACCTCCAAGGACGAGGCAGAGCGACCGCTTTCGCTCAG
GAGCTCGCAGCTCTTGACGACAGACAACGGCGCATTCGTTTCTGACGGCTTCGGTGTGTC
CACCGCGCACAGACCTCCGTCTACGACATTGCAAAGTTGCTGCCACACTACGCTGGCGGA
CTGGTAGAGACCGAGATTTCCGTTCTGGAAAAGATCGCAGAATCACAGAGGCACCATAC
GTAGTGGTTCTCGGTGGATCCAAGGTCTCTGACAAGATCGGTGTTATTGAGGCGCTGGCT
GCCAAGGCTGACAAGATCATCGTCCGTGGCGGCATGTGCTACACCTTCTCGCAGCTCAG
GGACACAACGTTTCAGCAGTCCCTCCTGCAGGAAGAAATGAAGGCTACCTGCACCGACCTG
CTCGCACGCTTCGGTGACAAGATCGTTCTCCAGTTGACCTGGTTGCAGCATCCGAATTT
AACAAGGACGCAGAGAAGCAGATCGTTGACCTGGACTCCATCCAGAAGGCTGGATGTCT
CTTGACATCGGACAGAGTCCGTCAAGAACCTTCGGTGAGGTTCTCAGCACCGCTAAGACC
ATCTTCTGGAACGGCCCAATGGGCGTGTTTCGAGTTTCGAGCATTCTCTGAAGGCACCCGC
GGCATCGCCCAGGCCATCATCGATGCAACTGCAGGCAACGACGCATTCTCCGTTGTTGGC
GGTGGGCACTCCGACGATCCGTTTCGCGTGCTCGGCCTGAACGAAGACGGCTTCTCCAC
ATCTCCACCGGTGGTGGCGCATCCCTCGAGTACCTTGAAGGCAAGGAATCCAGGCGTT
GCAATTCTCGCTCAG

>RXA02257-downstream

TAAATCCGACACGGCCCTTTGTT

>RXA02258-upstream

CGTTGCAATTCTCGCTCAGTAAATCCGACACGGCCCTTTGTTAGAAAACAAAACATAAAG
GGCCACCGGGAAACTTTTTTAAGAAAGGTGTGTTTCACAC

>RXA02258

ATGGCACGTAAGCCACTTATCGCTGGTAACTGGAAGATGAACCTGGATCACCAGCAGGCA
ATCGGCACTGTTTTCAGAAAGCTTGCATTTCGCCCTTCCAAAGGAATACTTCGAGAAGGTTGAC
GTTGCAGTACCGTTTCCTTTTCACTGACATCCGCTCCGTCCAGACTCTCGTTGAGGGCGAC
AAGCTTGAGGTCACTTTCGGTGCTCAGGACGTCTCCAGCACGAGTCCGGTGCGTACACC
GGTGAAGTTTCTGCAAGCATGCTGGCAAAGTTGAACTGCTCTTGGGTGTGCTTGGACAC
TCCGAGCGCCGCGAGTACCACAACGAGTCTGATGAGTTGGTTGCTGCGAAGGCAAAGGCA
GCTCTGTCCAACGGCATCAGCCCGATCGTCTGCGTTGGTGAGCCACTGGAAATCCGTGAA
GCTGGCACCCACGTTGAGTACGTCGTCGAGCAGACCCGTAAGTCCCTTGCTGGCCTGGAT
GCTGCTGAGCTGGCCAACACCGTTATCGCGTATGAGCCAGTGTGGGCTATCGGCACCGGT
AAGGTTGCTTCCGCAGCTGACGCTCAGGAAGTGTGCAAGGCTATCCGCGGTCTGATCGTG
GAGCTTGCAAGCGACGAGGTGCGTGAGGGCTGCGTATTCTTTACGGTGCTTCTGTTAAG
GCAGAAACCGTCGCTGAGATCGTCGGTCAGCCTGACGTCGACGGCGGACTTGTCGGTGCG
GCTTCCCTCGACGGTGAAGCATTCGCCAAGCTGGCTGCCAACGCTGCGAGCGTTGCT

>RXA02258-downstream

TAAAGTACAGAGCTTTAAAGCAC

>RXA02259-upstream

ATGAGCCCATGAAAGCCATCGAAATCAATCGCCAGCTAAACACCTGTTTTGCTGGGTGA
TTTTTTATCTCATGCACGCCAACACCCTCAATGTGAAAGA

>RXA02259

GTGTTTAAAGTAGTTATGACTGATTTTTTACGCGATGACATCAGGTTCCCTCGGTCAAATC
CTCGGTGAGGTAATTGCGGAACAAGAAGGCCAGGAGGTTTATGAACTGGTCAACAAGCG
CGCCTGACTTCTTTTGATATCGCCAAGGGCAACGCCGAAATGGATAGCCTGGTTCAGGTT
TTCGACGGCATTACTCCAGCCAAGGCAACACCGATTGCTCGCGCATTTTCCCACTTCGCT
CTGCTGGCTAACCTGGCGGAAGACCTCTACGATGAAGAGCTTCGTGAACAGGCTCTCGAT
GCAGGCGACACCCCTCCGGACAGCACTCTTGATGCCACCTGGCTGAAACTCAATGAGGGC
AATGTTGGCGCAGAAGCTGTGGCCGATGTGCTGCGCAATGCTGAGGTGGCGCCGGTTCTG
ACTGCGCACCCAACTGAGACTCGCCGCCGCACTGTTTTTGATGCGCAAAAAGTGGATCACC
ACCCACATGCGTGAACGCCACGCTTTGCAGTCTGCGGAGCCTACCGCTCGTACGCAAAGC
AAGTTGGATGAGATCGAGAAGAACATCCGCCGTCGCATCACCATTTTGTGGCAGACCGCG
TTGATTCTGTGCGCCCGCCACGTATCGAGGACGAGATCGAAGTAGGGCTGCGCTACTAC
AAGCTGAGCCTTTTGGAAAGAGATTCCACGTATCAACCGTGATGTGGCTGTTGAGCTTCGT
GAGCGTTTCGGCGAGGGTGTTCCCTTTGAAGCCCGTGGTCAAGCCAGGTTCCCTGGATTGGT
GGAGACCACGACGGTAACCTTATGTCACCGCGGAACAGTTGAGTATTCCTCCTCACC
GCTGCGGAAACCGTGCTCAAGTACTATGCACGCCAGCTGCATTCCCTCGAGCATGAGCTC
AGCCTGTGCGACCGCATGAATAAGGTCACCCCGCAGCTGCTTGCCTGGCAGATGCAGGG
CACAACGACGTGCCAAGCCGCGTGATGAGCCTTATCGACGCGCCGTCCATGGCGTTTCGC
GGACGTATCCTCGCGACGACGGCCGAGCTGATCGGCGAGGACGCCGTGAGGGCGTGTTGG
TTCAAGGTCTTTACTCCATACGCATCTCCGGAAGAATTCTTAAACGATGCGTTGACCATT
GATCATTCTCTGCGTGAATCCAAGGACGTTCTCATTGCCGATGATCGTTTGTCTGTGCTG
ATTTCTGCCATCGAGAGCTTTGGATTCAACCTTTACGCACTGGATCTGCGCCAAAACCTCC
GAAAGCTACGAGGACGTCTCACCAGGCTTTTCGAACGCGCCCAAGTCACCGCAAACCTAC
CGCGAGCTGTCTGAAGCAGAGAAGCTTGAGGTGCTGCTGAAGGAACTGCGCAGCCCTCGT
CCGCTGATCCCCGACGGTTCAGATGAATACAGCGAGGTCACCGACCGGAGCTCGGCATC
TTCCGCACCGCGTCGGAGGCTGTTAAGAAATTGCGGCCACGGATGGTGCCTCACTGCATC
ATCTCCATGGCATCATCGGTACCGATGTGCTCGAGCCGATGGTGTGCTCAAGGAATTC
GGACTCATCGCAGCCAACGGCGACAACCCACGCGGACCGTCGATGTCATCCCACTGTTTC
GAAACCATCGAAGATCTCCAGGCCGGCGCCGGAATCCTCGACGAACTGTGGAAAATTGAT
CTCTACCGCAACTACCTCCTGCAGCGCGACAACGTCCAGGAAGTCATGCTCGGTTACTCC
GATTCCAACAAGGATGGCGGATATTTCTCCGAAACTGGGCGCTTTACGACGCGGAACTG
CAGCTCGTCGAACTATGCCGATCAGCCGGGGTCAAGCTTCGCCTGTTCCACGGCCGTGGT
GGCACCGTCGGCCGCGGTGGCGGACCTTCCTACGACGCGATTCTTGCCACGCCAGGGGG

GCTGTCCAAGGTTCCGTGCGCATCACCGAGCAGGGCGAGATCATCTCCGCTAAGTACGGC
AACCCCGAAACCGCGCGCCGAAACCTCGAAGCCCTGGTCTCAGCCACGCTTGAGGCATCG
CTTCTCGACGTCTCCGAACCTACCGATCACCAACGCGGTACGACATCATGAGTGAGATC
TCTGAGCTCAGCTTGAAGAAGTACGCCTCCTTGGTGCACGAGGATCAAGGCTTCATCGAT
TACTTCACCCAGTCCACGCCGCTGCAGGAGATTGGATCCCTCAACATCGGATCCAGGCCT
TCCTCACGCAAGCAGACCTCCTCGGTGGAAGATTTGCGAGCCATCCCATGGGTGCTCAGC
TGGTCACAGTCTCGTGTCTGCTGCCAGGCTGGTTTGGTGTGCGAACCGCATTAGAGCAG
TGGATTGGCGAAGGGGAGCAGGCCACCCAACGCATTGCCGAGCTGCAAACACTCAATGAG
TCCTGGCCATTTTTACCTCAGTGTGGATAACATGGCTCAGGTGATGTCCAAGGCAGAG
CTGCGTTTTGGCAAAGCTCTACGCAGACCTGATCCCAGATACGGAAGTAGCCGAGCGAGTC
TATTCCGTCATCCGCGAGGAGTACTTCCTGACCAAGAAGATGTTCTGCGTAATCACCGGC
TCTGATGATCTGCTTGATGACAACCCACTTCTCGCACGCTCTGTCCAGCGCCGATACCCC
TACCTGCTTCCACTCAACGTGATCCAGGTAGAGATGATGCGACGCTACCGAAAAGGCGAC
CAAAGCGAGCAAGTGTCCCGCAACATTCAGCTGACCATGAACGGTCTTTCCACTGCGCTG
CGCAACTCCGGC

>RXA02259-downstream
TAGTCCAGCCGGCTGGGTAGTAC

>RXA02288-upstream
AACAACAATCTAACGCCATCATGTTATAAAAAAGCAAGACCTAACATAAAAAATGTTAGAA
AGTGCTGGATCTAACAACATTTCCGTGGTAACTTTTTCAC

>RXA02288
ATGTCCCAAGTGATTCCCGCCAGCTCACAAGAAAAGCGTCGTGAGCGCATCGTTTTCTTAT
GTCACCCGTCATGGATTGCTCGTGTGAAGCATTAGCTGAGCTTTTTGAGGTCAGCGCA
ATGACCATTCACCGTGATTTGGAGGCGCTGGCTGCAGACAATTTGGTGGAGCGCATTAGG
GGTGGCGCGCGTTCCGTGTGCGCGTCGATGAGTGAGTTGGCAGTGAGCAGCGTCGGCAT
TTGCATCGCACTGTTAAAGAGGCGTTGTGTACTGCAGCAGCACGGTTGATTCCGGAGGGC
GCTGTGGTGGCGATTGATGATTCCACCACGTTGGAGTCTTTGGTTGAGAAGTTGCCGCAG
CGGTACCATCGGCGTTGATTACGCATTCTTTGAAGACAATGGCGGATCATCGTGTGCGC
GCCGGGATGAGCGATATCCGTTTGATTGCGTGTGCGGGATTGTATTTGCGGAGACTGAT
TCTTTCTTGGGCAAGGCAACTTCAGCGCAGTTGAATGAGCTGTGCGCGGATATTTCTTTT
GTTTCTACGACTGCGGTGCGCGCTACGGGGGAGGTTCCGGCGCTGTTTCATCCTGATATG
GAGGCTGCTGATACGAAGCGGGCGTTGATTGGGATTGGTAGCGTGCGTGTGTTGGTG
GATTCTAGTAAATTTGGTTCCGGCTGGTGTGTTCAAGGTTGCTTCGATTGAGGAGTTTGAC
CACATCATCATTGATCAGCAGTGCACCCGTGAGCAGCGGGATCTTTTGCGTAATTCGCGC
GCGCAGATCCATGTGATTGACCACAATGGTGATGAAATTTTGGATACCCCAACGGAAGAG
GATTTT

>RXA02288-downstream
TAAGATGGCTTTGGTTCTTGGA

>RXA02292-upstream
TGCACCACGCCAGCTGCAACCCTGCGCGGTGGTCTGGGAAGTTGGTGGAGGGGATCGTGC
AAAAGCGTAGGCACTAAAGTTCTCCTGCACAATGGAGGAT

>RXA02292
ATGGACAATGACTTTGAATCTATCGAGAAAATGAGCAGCGGCGATTGGTACGTGGCTACC
GGCGCGGAACGTGAAGAAGTGGCACAAAAACAGCGTTACTTTCCACGAATACAACCAA
ATTGGACCTACAGACCCCGCACGAACCTGCCGAAATACTAAGAACTGTACTAAATCCTGCC
AGCGGAACCTGCACGATCAAAGCGCCAGCCATCATTGAATACGGCTTCAACACCACGATC
GGCGAGCATGTGTTTCATCAACTTTGGCCTCACCATTTTAGATATCGCACCCGGTTCGCATC
GGGGCAGCAGCATGCTCGGGCCAACTGTCAGCTCTTCACCGCAGGTACCCCGGTGAT
GACTGGGAAATGCGCTCCGGTGGGTGGGAAAATGGCGCACCCATTTCCATTGGCGAGGAT
ACGTGGCTGGGTGGAAATGTCACCGTCGTTGGTGGCGTGAGCATTGGCGATAGGTGTGTG
ATTGGCGCGGGGCGGTGGTGACCAAGGATATTCCGGATGATTCTATTGCTGTGGGCAAC
CCTGCGCGAGTAGTGCGGAAACGTGATGATAGCCGGCTCGAACGTTTCGACGCTGCCAGAA
GGTGCTTCCGTGGATGCGTTGGGGATTCTTCCTACAAAATCACCTAGGCTGTCAGAAAAT
ATTGCCGAAAAATAT

>RXA02292-downstream
TAAATACGCAGGCACTAAGAAGA

>RXA02322-upstream
CGCGCAGAGCTAAACTGCGTGAGGTTGTGGCCTGTACACATAATCGGCCTAGGGTGGGA
CTTTAAGGAAACAGTGACAAATAAATCTCAAGGAGCCCC

>RXA02322
ATGCGCATCCACGATGTTTATACCCACCTTTCGGCCGATAACTTTCCCAAAGCAGAGCAC
CTTGCGTGGAATTCTCCGAGCTTGCCACCGACCCCGTGAGGTGACACCGGATGTTTCG
GAGATGATCATCAACCGGATCATCGACAACGCGCGGTGTCTGCCGCGTCGGTGTTCGCG
CGGCCTGTGACTGTGGCCAGGCAACAAGCGCAGTCCCATCCGCGGGAAGGGCGGAAAA
GTTTTTGAATTTTCAGGCAGCTACTCACCAGAGTGGGCTGCCTTTGCTAATGGTGTGGCC
GTACGTGAATTGGACTTCCACGATACATTTTTAGCAGCTGAATACTCCCATCCGCGCGAC
AATATTCCACCACTTCTTGAGTAGCGCAGGCTCAGAGAAGCAGCGGCAGG

>RXA02326-upstream
CCAGGCGGACAGTTGTCCAACCTGCGTGACAGGCCACCGCACTGGGCCTTGCGGATCGT
TTCGAACCTCATCGAAGACAACCTACGCAAGCCGTTAATGAG

>RXA02326
ATGCTGGGACGCCCCAACCAAGGTCACCCCATCTCCAAGGTTGTTGGCGACCTCGCACTC
CACCTCGTTGGTGCGGGTGTGGATCCAGCAGACTTTGCTGCCGATCCACAAAAGTACGAC
ATCCCAGACTCTGTATCGCGTTCTGCGCGCGAGCTTGGTAACCTCCAGGTGGCTGG
CCAGAGCCACTGCGCACCCGCGCACTGGAAGGCCGCTCCGAAGGCAAGGCACCTCTGACG
GAAGTTCTTGAGGAAGAGCAGGCGCACCTCGACGCTGATGATTCCAAGGAACGTCGCAAT
AGCCTCAACCGCCTGCTGTTCCCGAAGCCAACCGAAGAGTTCTCGAGCACCGTCGCCGC
TTCGGCAACACCTCTGCGCTGGATGATCGTGAATTCTTCTACGGCCTGGTCGAAGGCCGC
GAGACTTTGATCCGCTGCCAGATGTGCGCACCCCACTGCTTGTTCGCTGGATGCGATC
TCTGAGCCAGACGATAAGGGTATGCGCAATGTTGTGGCCAACGTCAACGGCCAGATCCGC
CCAATGCGTGTGCGTGACCGTCCGTTGAGTCTGTACCGCAACCGCAGAAAAGGCAGAT
TCCTCCAACAAGGGCCATGTTGCTGCACCATTCGCTGGTGTGTCACCGTGACTGTTGCT
GAAGGTGATGAGGTCAAGGCTGGAGATGCAGTCGCAATCATCGAGGCTATGAAGATGGAA
GCAACAATCACTGCTTCTGTTGACGGCAAAATCGATCGCGTTGTGGTTCCTGCTGCAACG
AAGGTGGAAGGTGGCGACTTGATCGTCTGTTTCC

>RXA02326-downstream
TAAACCTTTCTGTAAAAAGCCCC

>RXA02327-upstream
ACCGCTGAAGCAGCTTGCCCCAGCCGCGTTTGCTCGTGATCTCCGTGAGCAGGACGCACT
GGCAGTTACTGATACCACCTTCCGCGATGCACACCACTCT

>RXA02327
TTGCTTGCGACCCGAGTCCGCTCATTGCGACTGAAGCCTGCGGCAGAGGCCGTGCGAAAG
CTGACTCCTGAGCTTTTGTCCGTGGAGGCCTGGGGCGGCGGACCTACGATGTGGCGATG
CGTTTCTCTTTGAGGATCCGTGGGACAGGCTCGACGAGCTGCGCGAGGCGATGCCGAAT
GTAAACATTGAGATGCTGCTTCGCGGCCGCAACACCGTGGGATACACCCGTACCCAGAC
TCCGTCTGCCGCGCGTTTGTAAAGGAAGCTGCCAGCTCCGGCGTGACATCTTCCGCATC
TTCGACGCGCTTAACGACGCTCTCCAGATGCGTCCAGCAATCGACGAGTCTTGAGACC
AACCCGCGGTAGCCGAGGTGGCTATGGCTTATTCTGGTGATCTCTCTGATCCAAATGAA
AAGCTCTACACCTGGATTACTACCTAAAGATGGCAGAGGAGATCGTCAAGTCTGGCGCT
CACATCTTGCCATTAAAGGATATGGCTGGTCTGCTTCGCCCAGCTGCGGTAAACCAAGCTG
GTCACCGCACTGCGCCGTGAATTCGATCTGCCAGTGCACGTGCACACCCACGACACTGCG
GGTGGCCAGCTGGCAACCTACTTTGCTGCAGCTCAAGCTGGTGCAGATGCTGTTGACGGT
GCTTCCGGCACCACTGTCTGGCACCACTCCCAAGCCATCCCTTGTCTGCCATTGTTGCT
GCATTGCGGCACACCCGTGCGGATACCGGTTTGAGCCTCGAGGCTGTTTCTGACCTCGAG
CCGTACTGGGAAGCAGTGCGCGGACTGTACCTGCCATTTGAGTCTGGAACCCAGGCCCA
ACCGGTGCGCTCTACCGCCACGAAATCCCAGGCGGACAGTTGTCCAACCTGCGTGACAG
GCCACCGCACTGGGCCTTGCGGATCGTTTCAACTCATCGAAGACAACCTACGCAAGCCGT

>RXA02327-downstream
TAATGAGATGCTGGGACGCCAA

>RXA02328
GCTTCTGAAGCTGTCCGCATTGGTACCGAAGGCTCACCAGTCAAGGCGTACCTGGACATC
GATGAAATTATCGGTGCAGCTAAAAAGTTAAAGCAGATGCCATTTACCCGGGATACGGC
TTCCTGTCTGAAAATGCCAGCTTGCCGCGAGTGTGCGGAAAACGGCATTACTTTTATT
GGCCCAACCCAGAGGTTCTTGATCTACCGGTGATAAGTCTCGCGCGGTAACCGCCGCG
AAGAAGGCTGGTCTGCCAGTTTGGCGGAATCCACCCGAGCAAAAACATCGATGAGATC
GTTAAAAGCGCTGAAGGCCAGACTTACCCCATCTTTGTGAAGGCAGTTGCCGGTGGTGGC
GGACGCGGTATGCGTTTGTGCTTCACCTGATGAGCTTCGCAAATTAGCAACAGAAGCA
TCTCGTGAAGCTGAAGCGGCTTTCGGCGATGGCGCGGTATATGTGCAACGTGCTGTGATT
AACCTCAGCATATTGAAGTGCAGATCCTTGGCGATCACACTGGAGAAAGTTGTACACCTT
TATGAACGTGACTGCTCACTGCAGCGTCGTCACCAAAAAGTTGTGCAAATTGCGCCAGCA
CAGCATTTGGATCCAGAACTGCGTGATCGCATTTGTGCGGATGCAGTAAAGTTCTGCCGC
TCCATTGGTTACCAGGGCGCGGAACCGTGGAATTCTTGGTCGATGAAAAGGGCAACCAC
GTCTTCATCGAAATGAACCCACGTATCCAGGTTGAGCACACCGTGACTGAAGAAGTCACC
GAGGTGGACCTGGTGAAGGCGCAGATGCGCTTGGCTGCTGGTGCAACCTTGAAGGAATTG
GGTCTGACCCAAGATAAGATCAAGACCCACGGTGCAGCACTGCAGTGCCGCATCACCACG
GAAGATCCAAACAACGGCTTCCGCCCAGATACCGGAACATACACCGCGTACCGCTCACCA
GGCGGAGCTGGCGTTTCGTCTTGACGGTGCAGCTCAGCTCGGTGGCGAAAATCACCGCACAC
TTTGAATCCATGCTGGTGAAAATGACCTGCCGTGGTTCCGACTTTGAAACTGCTGTTGCT
CGTGACACAGCGCGCTTGGCTGAGTTACCGTGTCTGGTGTGCAACCAACATTGGTTTC
TTGCGTGCCTGTGCGGGAAGAGGACTTCACTTCCAAGCGCATCGCCACCGGATTCATT
GCCGATCACCCGCACCTCCTTCAGGCTCCACCTGCTGATGATGAGCAGGGACGCATCCTG
GATTACTTGGCAGATGTCACCGTGAACAAGCCTCATGGTGTGCGTCCAAAGGATGTTGCA
GCTCCTATCGATAAGCTGCCTAACATCAAGGATCTGCCACTGCCACGCGGTTCCCGTGAC
CGC

>RXA02328-downstream
TGAAGCAGCTTGGCCCAGCCGCG

>RXA02329
ACGGCTACCAGGCAGTCGCGAAAAGGTGAGATTTCCAGCTGGAAGGCGTTCGCGCCAGCG
TTTGGCGGAAAGATGGCCATTGAGGCGATGGATCGTGCGATGCGTGGGGAGGGTTCCGCC
GCACCGATTTGGGAGGGCGAAGACGGGGTCATCGCGTGGCTGTTATCGGGCAAAGATCAT
GTTTATCATGTGCCATTGCCGGAACACGGCGAGCCCAAGCTGGGGATTCTAGAGACTTAC
ACAAAGGAACATTACAGCGGAATATCAATCGCAGGCACCGATTGATCTGGCGCGCAGGATG
AAGCCACTGGTTGACGCGGCTGGCGGAACGGAACACATTGCAGAGATTGTGCTGCGCACC
AGTCACCAACACGCAATTATGTGATTGGCACTGGGGCGAAGCATCCGCAGAAGATGGATCCG
CAGGCCTCGCTGGAACCCCTGGATCATTCATCATGTACATTTTCGCCGTGCGCTTCAA
GATGGCGTGTGGCACCACGAGTTTCTTACACCCGCAAGCGTTCCACCCGCCCGGAAACT
GTGGAGCTGTGGCACAAGATTCGCACCGTGGAGGATCCTGAATGGACGCGCCGATACCAT
TCT

>RXA02332-upstream
GACCGCATGCAACACCGCAGCAGATTATATGAGCTCCTGCGATACGAAGACTACAACGTC
TTTGACCAGCACATTTTCACCTACAGAAAAGGAGAAAACA

>RXA02332
ATGAGTGACAGCCAAGTCCGCAAAGGACTCAACGGCGTCATCTCTGACTACACAAGCATT
TCCAAAGTGATGCCAGAGAGCAACTCGCTGACTTACCGTGGCTACGCCGTGGAGGATTTG
GTGGAAAACCTGCAGCTTTGAAGAAGTGATCTACCTCCTGTGGTTTGGGGAGCTGCCACC
ACTGAACAACCTCCGGACCTTCAACACGACAGGTGCAAGCTACCGCTCACTCGACGCCGGA
CTGATTTCCCTCATCCACTCCTTACCCAACACCTGCCACCCCATGGACGTGCTGCGCACC
GCAGTGTCTTACATGGGTACCTTTGATCCCGATCCGTTTACCCGCGATGCCGATCATATC
CGAAGCATTGGACACAACCTGCTTGCAGCTTCCCATGGTGGTTGCCATGGATATCCGC
AGGCGAAGTGGGGAAGAGATCATCGCACCTGACCACAACAAAGGTATCGCTTCGAATTC
TTATCCATGGTGTGTTGGCAATGATGATGGTTCTGTAGCCAACCTCCGCAGATGACATCCGC

GATTTTGAACGCTCCCTCATCCTCTACGCCGAGCACTCCTTCAACGCCTCCACATTCTCA
 GCCCCGCGTGATCTCATCAACGCGATCCGATACGTATTTCGGCGATCACAGGTGCGATCGGT
 GCTCTCAAAGGCCCCACTGCACGGAGGTGCCAATGAGTTTGTTCATGCACACCATGCTGGAT
 ATCGACGATCCCCAACAATGCTGCCGACTGGATGGGCAAGGCGTTGGATCGTAAAGAACGC
 ATCATGGGATTTCGGGCACCGCGTGTACAAAAACGGCGACTCCAGGGTCCCCCTCATGGAG
 AAATCCATGCGCTCCCTTGCTGCTCGTCACCGTGGTCAAAAATGGGTGCACATGTATGAG
 TCGATGCAAGAAGTCATGGAGGCTCGCACTGGCATTAAACCCAACCTCGACTTCCCGGCC
 GGCCCTGCCTATTACATGCTGGGATTCCCCGTCGACTTCTTCACACCACTGTTTGTGCTG
 GCCCCGAGTGTGAGGGTGGACGGCACACATCGTGGAGCAATTTGAAAAAATGCGCTGATC
 CGACCATTGTCTGCCTACAACGGAGTGGAAGAAAGGGAGGTGGTGCCCATTTTCGGAGAGA
 ACC

>RXA02332-downstream
 TAATCAGTGAGGCTGATTTCTAA

>RXA02333
 GAGATTGGCTACAACGCCGTGATCTACCCCGTGACCACGCTGCGTATTGCCATGGGACAA
 GTAGAACAAGCACTAGCCGAAATCAAAGAACACGGTACCCAAGAAGGATGGCTGGACCGC
 ATGCAACACCGCAGCAGATTATATGAGCTCCTGCGATACGAAGACTACAACGTCTTTGAC
 CAGCACATTTTCACCTACAGAAAAGGAGAAAACAATGAG

>RXA02333-downstream
 TGACAGCCAAGTCCGCAAAGGAC

>RXA02379-upstream
 TGCAGGCCTCCATGGCGGGTATTGATGCGCTGGTCAAGCGTGGTGTCGTCA

>RXA02379
 ATGAGAAAGCACCGTTGGGCAAACGCGGCTGGCCTGTACGCTGACACCGTTGCTGAGTCC
 ACCATTGGTTTAATTCTGGCGCAGATGCACATGCATGCGACGACTCGTTTGGCTAAGTCG
 TGEAGCGTGCGGCCCTGAGGTGGAAAACAACAAGTCATGGCTGCATGACAATAAACTGTC
 GCTATTTTGGGCGCCGGTGGCATTGGCGTGCGTCTGCTGGAAATGCTCAAGCCGTTCAAC
 GTGAAGACCATTGCGGTTAATAACTCTGGTCTGCCGTGGAAAGGTGCAGATGAAACCTTC
 GCCATTGGATAAGGCTGAGCACGTGTGGGCTGAGGCTGATGTGTTTGTGCTCATCCTGCCG
 CTGACTGATGCCACTTATCAGATCGTCAATGCAGAACTTTGGGCAAGATGAAGCCTTCT
 GCCGTGGTGGTCAATGTGGGGCGTGGCCCGCTGATCAACACCGATGATCTGGTGGATGCA
 TTGAACAACGGCACCATTTGCGGGTGTGCGCTGGACGTTACCGATCTGAGCCACTTCCT
 GACAGCCACCCGCTGTGGGAGATGGACAATGTGGTTATCACTCCTCATACTGCAAACACG
 AATGAGAGGATTCTGTGCTTTGACCGGCGAACTCACCTTGCGCAACATTGAGTTGTTGAG
 GCAGGCGAGCAGATGGCCACCGAGGTGATGTGGTGGCTGGCTAC

>RXA02379-downstream
 TAGGCCTTTTATGGTGTGATCCG

>RXA02399-upstream
 CAAACCGATGCACATCACGTGAAACAGTGACAGTGCATTAGCTCA'ACTTTGTGGTCGG
 CACCGCCCATTTGCGAATCAGCACTTAAGGAAGTGACTTTG

>RXA02399
 ATGTCAAACGTTGGAAAGCCACGTACCGCACAGGAAATCCAGCAGGATTGGGACACCAAC
 CCTCGTTGGAACGGCATCACCCGCGACTACACCGCAGACCAGGTAGCTGATCTGCAGGGT
 TCCGTCATCGAGGAGCACACTCTTGCTCGCCGCGCTCAGAGATCCTCTGGGACGCGATC
 ACCCAGGAAGGTGACGGATACATCAACGCGCTTGGCGCACTCACCGGTAACCAGGCTGTT
 CAGCAGGTTCTGTCAGGCCTGAAGGCTGTCTACCTGTCCGGTTGGCAGGTGCGCAGGTGAC
 GCCAACCTCTCCGGCCACACCTACCCTGACCAGTCCCTCTACCCAGCGAACTCCGTTCCA
 AGCGTCTGTTCTGTCGATCAACAACGCACTGCTGCGTTCCGATGAAATCGCACGCACCGAA
 GGCGACACCTCCGTTGACAACTGGGTTGTCCCAATCGTCGCGGACGGCGAAGCTGGCTTC
 GGTGGAGCACTCAACGTCTACGAACTCCAGAAGGCAATGATCGCAGCTGGCGCTGCAGGC
 ACCCACTGGGAAGACCAGCTCGCTTCTGAAAAGAAGTGTGGCCACCTCGGCGGCAAGGTT
 CTGATCCCCAACCCAGCAGCACATCCGCACCCTGAACTCTGCCCGCCTTGACGACAGCGTT
 GCAAACACCCCAACTGTTGTTATCGCACGTACCGACGCTGAGGCAGCAACCCTGATCACC

TCTGACGTTGATGAGCGCGACCAACCATTTCATCACCGGTGAGCGCACCGCAGAAGGCTAC
TACCACGTCAAGAATGGTCTCGAGCCATGTATCGCACGTGCAAAGTCCTACGCACCATAC
GCAGATATGATCTGGATGGAGACCGGCACCCCTGACCTGGAGCTCGCTAAGAAGTTCGCT
GAAGGCGTTTCGCTCTGAGTTCCCAGACCAGCTGCTGTCTTACAACCTGCTCCCCATCCTTC
AACTGGTCTGCACACCTCGAGGCAGATGAGATCGCTAAGTTCAGAAAGAACTCGGCGCA
ATGGGCTTCAAGTTCAGTTCATCACCTCGCAGGCTTCCACTCCCTCAACTACGGCATG
TTCGACCTGGCTTACGGATACGCTCGCGAAGGCATGACCTCCTTCGTTGACCTGCAGAAC
CGTGAGTTCAAGGCAGCTGAAGAGCGTGGCTTCACCGCTGTTAAGCACCGCGTGAGGTT
GGCGCAGGCTACTTCGACCAGATCGCAACCACCGTTGACCCGAACCTTCTTACCACCGCT
TTGAAGGGTTCCACTGAAGAAGGCCAGTTCACAAC

>RXA02399-downstream
TAGGACCTACAGGTTCTGACAAT

>RXA02404
ATGCAGGTTGCAAAAGTTCTCTACGACTTTGTAACCGAAGCGGTACTCCCTCGCGTGGGT
GTGGATGCGGAAAAGTTCTGGTCCGGATTTCGCCGCATCGCCCGGACCTCACCCACGC
AACCGCGAGCTGCTTGCTCGCCGCGATGAAGTGCAGATGCTTATCGACGACTACCACCGC
AACAACCTCCGGCACCATCGACCAAGAGGCGTACGAGGATTTCTCAAAGAAATCGGATAC
TTGGTTGAGGAGCCAGAAGCTGCAGAAATCCGTACCCAAAACGTGATACGGAAATCTCC
AGCACCGCAGGACCTCAGCTGGTTGTTCCAATTCTGAACGCACGCTTCGCGCTGAACGCT
GCCAATGCTCGCTGGGGTTCCCTCTACGATGCGTTGTACGGCACCAACGCCATCCCAGAA
ACTGATGGCGCTGAAAAGGGCAAGGAGTACAACCCGGTCCGCGGCCAGAAGGTCATCGAG
TGGGGTCGTGAATTCTTCGACAGCGTTGTCCCACTGGACGGTGCTTCGCATGCCGATGTT
GAGAAGTACAACATCACCGATGGAAAGCTTGCAGCCACATTGGAGATAGCGTCTACCGA
CTGAAAACCGTGAATCTTACCGTGGCTTCACCGCAACTTCCTTGATCCAGAAGCAATC
CTGCTGGAAACCAACGGCCTGCACATCGAGCTGCAGATCGATCCTGTCCACCCAATCGGC
AAGGCAGACAAGACTGGTCTCAAAGACATCGTTTTGGAATCTGCGATCACACGATCATG
GACTTCGAAGACTCCGTTCGAGCTGTTGATGCTGAAGACAAGACCTTAGGTTACTCTAAC
TGGTTTCGGAATCAACACCGGCGAAGTGAAGAAGAGATGTCCAAGAACGGACGCATCTTC
ACCCGTGAGCTCAACAAGGACCGCGTCTACATTGGCCGCAATGGTACCGAGCTGGTTCTG
CACGGTCGTTCCCTGCTGTTCTCGTCCGCAACGTTGGTCACTCATGCAAAACCCATCCATC
TTGATTGATGGCGAGGAGATCTTCGAAGGCATCATGGATGCTGTCTTGACCACTGTTTGT
GCCATCCCAGGAATTGCTCCGCAAGCAAGATGCGCAATTCCCGCAAGGGCTCCATCTAC
ATCGTGAAGCCTAAGCAGCACGGCCCTGAAGAAGTTCGCGTTACCAACGAGCTCTTCGGC
CGCGTTGAGGATCTGCTTGATCTGCCACGCCACACCTTGAAGGTTGGTGTATGGATGAG
GAGCGTCGCACGTCCGTGAACCTGGATGCCAGCATCATGGAAGTTGCTGACCGCTTGGCA
TTCATCAACACTGGCTTCCTGGACCGCACCGGCGATGAAATCCACACCTCCATGGAAGCA
GGCGCCATGGTGCAGCAAGGCTGATATGCAGACCGCACCGTGAAGCAGGCCTACGAGAAC
AACAACGTTGATGCAGGTATTCAGCGTGGTCTTCCTGGCAAGGCTCAGATCGGTAAGGGC
ATGTGGGCGATGACTGAACTCATGGCAGAAATGCTGGAGAAGAAGATCGGCCAGCCACGC
GAAGCGGCCAACATGCATGGGTTCCCTTACCAACTGGTGCAGCGCTGCACGCAACGCAC
TACCATTGGTTGATGTGTTCAAGGTTCAAGACGAAGTGCCTGCTGCCGGCCGCCGCGAC
AGCCTGCGCAACATTCTCACCATTTCAACCGCACCAAAACACCAATTGGTCTGAGGAAGAG
AAGAAGGAAGAGATGGACAACAAGTCCAGTCCATCCTCGGATACGTTGTGCGCTGGGTT
GAGCACGGTGTGGTTGCTCCAAGGTTCCAGACATCCATGACATCGACCTCATGGAAGAC
CGCGCAACGCTGCGTATTTCTTCGAGATGCTGGCCAACTGGATCCGCCATGATGTTGTC
TCGAAGGAGCAGGTCTTGGAGTCACTGGAACGAATGGCAGTGGTTCGTCGACAAGCAAAAT
GCGGGCGACGAGGCCTACCGCGATATGGCGCCGAAGTACGACGCTCCCTCGCCTTCCAG
GCGGCTAAGGACTTGATTTTCGAAGGCACCAAGTCCCATCGGGCTACACCGAGCCCATC
TTGCACGCACGCCGCCGCGAGTTCAAAGCAAAAAAC

>RXA02404-downstream
TAAGCACGCTTTTCGACGCTTAC

>RXA02414-upstream
TTTACC

>RXA02414
ATGAGTTACAACAGCCCGTATAACAACACGAATTTAGCACCACTGGCGCGTTCCAACCT
GCTGGTGGGCCGGTGAAGCCGTGGAATAAGCCCGATGCCAGCCTGAATCAGCAGCTGAAA

AACAAATCCCGTGTGCGCACAGGTCTTACCATCGCCATCGGTTATGTAGTGGTGATTGG
GCGGTGCATTTGGCATCCATCGTCATTGCGCTGCTCACTGGCTTCAACCTGACCAACTTT
GGTATTCATCCGCTGGATACCACTGCACTGTGGGGTATTTTCACCTCACCGCTGTTGCAT
GGAAGCTTCAGCCACCTCATTGGAATACCGTTCCAGGCTTTATATTCAGTTTCCTCATC
GGTATGAGTGGCAAGCGCGTGTCTGGGAAGTCACGATTATCGCAGGTCTCATCGGCGGT
CTTGGTACATGGATTTTCGGTGGAATCGGCACCAACCACATCGGTGCGTCCGGCCTGATT
TATGGCTGGCTTGGCTACCTGATCGTGCGTGGAATTTTCAACAAGGATATTAAACAGTTC
CTGCTTGGCATAGTTTTGGCGTTCATTTACTCCGGTTTGTCTGGGGTCTGCTACCTACT
CAAATCGGTGTGTCTGCGCAGGGCCACCTTTTCGGTGCACTTGGTGGAATCGGTGCGGGT
GCTTTTATCGCCTCGGATGACCCGGCAGCGTTGAAAGCGAAGAAGCAACAGAAGAAATTA
GAAAAGCAACAACGCCAAAGAGGCTTA

>RXA02414-downstream
TAGTTTTACCTAGCGACTACAC

>RXA02435-upstream
TCATGAATGTAGAACGGATTATCGACAAGCGCCAGCAAGTACGTTGATCTCTTTAGCCA
TCATCGCTGTGTACGCAGTGCGGCCATTCAATCGAGATCA

>RXA02435
GTGACAGACAACCTGGGTTCAACCAGTATCGGTGACGCGTGGATTCTGTACGCACCGCTG
ATGGATGATGGTGGCTTTGGTCCACTGCGTGCCATCGGAGGAATGTTCTGCACATTGGC
CCCGGGCACATGCTGTTGAACCTTGTGTTGTTGTTGTTGCTGGGAAGAGAAATTGAACGA
GACTTCGGTCTGCGCTTTTCACTGCGATGTACTTTGTGGGCGGTATTGGTGCGTCTGCA
GCTGTCTATCTGGATGGATCCCTATTCACCGACAGCAGGTGCTTCCGGCGCCATTTACGCC
ATGATGGCTATTTTGGTGGGGCTTTTGTGTTAAGAAGCGCGGATATCCGAGCACCTTG
ATCCTTATCGCCATCAACATCGCCTATACCTTGATGTCCACCAATGTTTCTCTGTGGGGA
CACCTTGGAGGTTTGATCACTGGAGCTTTAATTACTTGGCCAATGGTTAAAGCGAAAAC
CAAAGAACACGGTGGATTATCGTGCTCATTGGTTTTGCTGTAGTTGTGGCTGCTGTCATT
CTAGGAATTGACCGGGTG

>RXA02435-downstream
TAGACACATTCCGCCCATTTGCC

>RXA02440-upstream
GCTGTTAATCACGGTTGTTTCAGCTACCGGGGAGCACACGGGCAACAGATGGGGCATC
AGGCGGAGGAACCGTCGATACGCCTCGGTTGGTTGTGCG

>RXA02440
ATGGTGAGCCACGGCGCGCCGGGCGATACTTTTTGGGATTTGGTCCGAAAAGGTGCTGAA
GACGCCGCCCAAAAAGACAACGTTGAACTCCGCTATTCTCTAATCCGGAAATCCCTGAA
CAATCCAACCTCGTGCAAAATGCCATCGATTACGCGTCGACGGCATCGCCATGACCATG
CCTAATGCTCAATCACTAGGACCGGTGCTCAAAGGCGGTGGATGCGGGCATTCTGTG
GTTGGTCTCAACGCTGGAATGAACGAATACCAAGATTATGGAATGACAGGATTCTTTGGT
CAAGATGAATCCGTCGAGGAGCATCCGCAGGAGCGCGCCTTGCCGAGGAAAACGCACAA
AAAGTTTTGTGTGTGATCCATGAACAGGGCAACTCCTCCCAGGAAGCTCGCTGTGGTGGC
GTGTCTGAAGGTTTGGGCAACAAGTAGAAACCCTGTATGTCAACGGCATGGATCTCACC
TCAGTGAATCCACCCTGCAGGCAAACTTGCTCAAGACCGCAGCATTGATTGGGTTGTG
GGACTCCAGGCTGGTGTATCAATGGCTATTTCTGATGCGGCAGACGCTGCGAACTCAGAA
GTAAAGATCGCCACCTTTGATACAAACGCACAGCTCATGACCGCTATTCGTGATGGCAAG
ATCCAATTCGCCATTGATCAGCAACCATATCTGCAGGGCTACATGGCCGTGGATTTCGCTG
TGTTTGGCGCACCGAAACGGCACCACTGTTGGTGGCGGACGACCCGTGTACACAGGACCA
GCCATTGTGGATGCCACCAACGTTGATGTCTATTGCTGAAGCCGTTGGGAGGGTCTGCGA

>RXA02440-downstream
TGACAAAAATCAAGAGTGGGGAG

>RXA02453-upstream
AACCAACAAAGGTCACTCAACCGGCTTAAGAAAATTCTGCCAGCTTTCTGCTGATTGAA
TCGTGCCAGCTCAGGGCATATCTCACCTAAAGTAAACACC

>RXA02453

ATGAAATCAATCTTCATTTCCGGTGC GGCGAACGGAATTGGCAAAGCTGTGGCGTTGAAA
 TTTCTTCACGAAGGTTGGCTCGTTGGAGCCTACGACCTCGCGGAAATCACCTACTCACAC
 CCAATCTTCGCTGGGGCTACCTCAATGTTTCGACAGTCCGAGTCGTGGGACAAAGCCCTA
 GAAGACTTTGCGACGCACACCGGAGGCACCATCGATGTGGTGGACAATAATGCCGGCGTA
 ATTATTGAGGGACCGCTGCAGGACGCAGAGGAGGGGAGCGTCGACAAGCTTCTTGCAATC
 AACGTCAATGGCGTGACTCTTGGTGCCCGCGCCGCTCATCCTTATTTGGCGCGCACGCCG
 GGCGCCCATGTTGTTAAACATGTCCTCGGCGTCGGCGGTGTACGGGCAGCCCCAGATCGCG
 GTGTATTCGGCTTCGAAGTTTTACGTGCGAGGTCTTACTGAGGCGCTGAATTTGGAGTGG
 CGGAAAGACGATATTCGCGTGGTTCGATGTTTGGCCTTTGTGGGCGAAAACCGATTTGGTG
 AACGGCGTGAAGGCTAAGTCACTGAAGCGTTTGGGTGTCCGGATCACTCCGGAACAGGTG
 GCACAGGCGGTATGGGATGCGGTGCATCCGAAATCTCGGTGGGCGAAGGGAAAGGTGCAT
 CACGGGGTGTCAAAGTTGGATAAGGCGCTGTATCTCATGAAATCTCTGTGCCTGATCGG
 GTAGCGATGTGTTTTGCGCGACTAATCGCCGGA

>RXA02453-downstream

TAAATGAATTGATTATTTTAGGC

>RXA02474-upstream

TGCTGGTCTATTGTGGCGACCGAGGGCCTTTGAAGGTTTCGACAAACTGTATAAGGCCTTG
 AATCTTGAGAATTTATTTTGGAGGAAGCAAGAGGAAGTGTC

>RXA02474

ATGAGCAAAGTTGCAATGGTTACCGGTGGTGCACAAGGCATCGGTTCGTGGAATTTTCAGAG
 AAGCTGGCAGCAGATGGTTTTCGATATTGCCGTAGCCGACCTGCCACAACAGGAAGAACA
 GCTGCAGAGACCATCAAGTTGATTGAAGCTGCAGGTCAAAGGCTGTATTCGTTGGATTA
 GATGTACCGGATAAGGCTAATTTTCGACAGTGCAATTGATGAGGCAGCAGAGAACTTGGC
 GGCTTCGATGTGCTAGTAAACAACGCCGGCATCGCACAAATTAAGCCACTTCTGGAAGTC
 ACCGAAGAAGACCTAAAGCAGATCTACTCCGTGAACGTTTTTAGCGTATTTTTTGGTATT
 CAAGCAGCATCCCGAAAGTTTCGATGAGCTTGGCGTAAAAGGCAAGATCATCAACGCTGCA
 TCAATCGCTGCTATCCAAGGTTTCCCAATCTTGAGCGCCTACTCCACCACCAATTCGCG
 GTTCGTGGCCTCACCCAGGCTGCTGCGCAAGAACTCGCACCCAAAGGGTCACACCGTGAAT
 GCCTACGCACCTGGCATCGTGGGCACCGGAATGTGGGAGCAAATCGATGCCGAGCTTTCC
 AAGATCAACGGCAAGCCAATCGGTGAGAACTTCAAGGAGTACTCCTCCTCAATCGCATTG
 GGCCGACCATCAGTACCTGAGGATGTAGCCGGTCTGGTTTCGTTTCCTGGCTTCTGAAAAC
 TCCAACATACATCACCGGACAGGTCATGCTTGTGACGGCGGCATGCTCTACAAC

>RXA02474-downstream

TAGGGGTTGCTTTCCCGCACTCA

>RXA02480-upstream

TACGTTCTGGCGCTGCCGTTCTTCGGCATTGTTTCTGAGATCATTCCTGTGTTCTCCCGT
 AAGCCAATGTTTCGGGTTACGTTCGGCTGATCTTCGCAACC

>RXA02480

TTGTCCATTGGTGCATGTCCATGGCTGTGTGGGCTCACCACATGTTTCGTTACTGGCGCA
 GTTTTGCTTCCGTTCTTCTCCTTCATGACGTTTCTGATTTTCGGTTCTTACCGGCGTTAAG
 TTCTTCAACTGGGTTGGAACCATGTGGAAGGGTCACATCACTTGGGAAACCCCAATGATC
 TGGTCTGTTGGCTTCATGGCTACCTTCCTCTTCGGTGGTCTGACCGGCATTATGCTGGCG
 TCCCCACCACTGGACTTCCACTTGGCTGACTCCTACTTCTGATCGCGCACTTCCACTAC
 ACCCTCTTCGGTACCGTGGTGTTCGCATCGTGTGCAGGCGTTTACTTCTGGTTCCCGAAG
 ATGACTGGCCGATGATGGACGAGCGTCTTGGAAGATCCACTTCTGGTTGACCTTCGTC
 GGTTTCCACGGAACCTTCTCATCCAGCACTGGGTGGGCAACATGGGTATGCCACGTCGT
 TACGCTGACTACCTGGATTCTGATGGTTTTACCATCTACAACCAGATCTCCACCGTGTTT
 TACTTCTGCTTGGCCTGTCTGTCTATTCCATTCTGGAACGTTTCAAGTCTGGCGC
 TACGGTGAGCTCGTTACCGTTGATGATCCTTGGGGTTACGGCAACTCCCTGGAGTGGGCA
 ACCTCCTGCCCTCCTCCTCGCCACAACCTTCGCATCCTTGCTCGTATCCGCTCCGAGCGC
 CCTGCGTTTCGAGCTGCACTACCCGCACATGATTGAACGCATGCGCGCAGAGGCACACACT
 GGACATCACGATGATATTAATGCTCCAGAATTGGGTACCGCCCCAGCCCTTGATCTGAC
 TCCAGCCGC

>RXA02480-downstream
TAAAAGCGTCTGATTTAAGTCGG

>RXA02481-upstream
TGCTAACTACGTCTGCCACTTCAGATCGGTGCGCCTGACGTAGCTTTCCCACGTTGAAA
TGCTTTTCGGCTTCTGAATCACCACCGTCGGTGGTGTGCGG

>RXA02481
ATGCTGACCGGCTTCCTAACCCCGGGTGGTGTGCTGCCGACTTGGGTGGACCATGTACTCCC
CACTGTCTGACGCAATTCCTCCCCAGGCCTTGGTTCTAACATGTGGATTGTCGGGTGTC
GGTGCAACTGGTATTGGCTCCGTTGCTTCCGCAATTAACATGCTCACCACCATCCTCTGC
CTCCGCGCACCTGGTATGACCATGTTCCGTATGCCTATTTTCACCTGGAATATCTTCGTT
GTTTCCGTTCTTGCTCTGCTGATCTTCCCACTGCTGCTCGCTGCTGCACTGGGTGTTCTG
TATGACCGCAAGCTTGGTGGACACCTGTACGATCCAGCTAACGGCGGCTCCCTCCTGTGG
CAGCACCTGTTCTGGTTCTTCGGACACCCTGAGGTTTACGTTCTGGCGCTGCCGTTCTTC
GGCATTGTTTCTGAGATCATTCTGTGTTCTCCCGTAAGCCAATGTTTCGGGTACGTCGG
CCTGATCTTCGCAACCTTGTCATTGGTGCACGTGCCATGGCTGTGTGGGCTCACCACAT
GTTTCGTTACTGGCGCAGTTTTGCTTCCGTTCTTCTCCTTCATGACGTTCTTGATTTCGGT
TCCTACCGGCGT

>RXA02481-downstream
TAAGTTCTTCAACTGGGTGGA

>RXA02485-upstream
CGGTGGTCAGTGCTTGGTGCACCTTGCCGACGGGCTGATTGATCGTAATGGTGTCTG
TACGCGTTGCCATGAGGATAAGACTACCGTTAGTGGGGTG

>RXA02485
TTGGATTTCATCGCTAGCCCAGGAAATCGCCGCGATCGACGGCGTCGAACTCGATTCCGAA
GTCACCTTTCGCCGATCTGACGACCCTCCGCATCGGCGGAAAACCCCGCAGCGCGGTACGT
TGCCAGACCACGGAGGCGCTGGTCAGCGCCATAAAATTGCTTGACGACGCCCTCCCTCCCC
CTCCTCATTGTGGCGGGCGGGTCCAATCTCGTCGTGGCCGACGGCGATCTGGATGTTATT
GCCGTCATCATCGAAACCGACGACGTCTCCATCAACCTCACCGACGGTCTCCTCACCGCC
GATGCAGGCGCTGTTTGGGACGATGTTGTCCACCTTTTCGGTGGATGCCGGCCTCGGTGGA
ATTGAATGCCTCTCCGGAATCCCGGGCTCCGCGGCGCCACCCAGTCCAAAACGTGGGC
GCCTACGGCACGGAAGTTTCCGATGTACTACCCGCGTCCAGCTTCTCGACCGCACACC
CACCAAGTCTCCTGGGTGACGCTCCGAACCTGACCTCTCTTACCGATACTCCAATCTC
AAATTACCAACCGCGCAGTCGTCTTGGCGATCGAACTCCAGCTCCTCACCGACGGATTG
TCCGCGCGCTACGTTTTGGTGAATTGGGACGTCGATTAGCGATCTCCGAGGCCGAACCC
CACCCACGTGCCCCCGTCCGCATGGTCCGCGACGCCGTCTAGAACTCCGCCGCGCCAAA
GGCATGGTCGTGGAACACACCGACACGACCTGGTCCGCCGGATCCTTCTTACCAAC
CCAATCGTCGACCCAGCCCTTGCCGACGACGTCTTGAAGAAAGTCGGCGAACCCACCATG
CCCCGCTTCCGACCGGCGATGGCAAAGAAACCTCTCCGACGCTGGCTCATCGAACGC
GCCGGCTTCAAAAAGGGACACCCCGCGCAGGCGCAAAGCCTCCCTGAGCACCAACAC
ACCCTCGCACTACCAACCGTGGCGACGCCGCGCCTCCGACCTCGTCGCATTAGCCAAA
GAAATCCGCGACGGAGTCTCGAAACCTTCGGCGTCACCCTCGTCCCAGAACCCGTCTGG
ATTGGAATCAGCATCGATGAC

>RXA02485-downstream
TGAATTTTCCGACGTCCCTGGCA

>RXA02492-upstream
GCTGTACAACGACGCTATTGCCAACGAAATGTGACGGTGAAACGCATCACGGCTAAGT
AAACGCGCGTCGTGGAACATAAAGTGGCAAACCTAGTACCT

>RXA02492
ATGACTAACGGAAAATTGATTCTTCTTCGTACGGTCAGAGCGAATGGAACGCATCCAAC
CAGTTCACTGGATGGGTGACGTCATCTGACCGAACAGGGTGAGGCTGAGGCCAAAGGC
GTCCTCCCAGGCGTTGTATACACCTCCTTGCTGCGTCGCGCGATCCGCACTGCAAACATC
GCACTGAACGCTGCAGACCGCCACTGGATCCCAGTGATCCGCGACTGGCGCCTCAACGAG
CGTCACTACGGCGCACTGCAGGGCCTTGACAAGGCTGCAACCAAGGAAAAATACGGCGAC

GACCAGTTCATGGAATGGCGCCGCTCCTACGACACCCACCACCAGAGCTCGCGGATGAC
GCAGAGTACTCCCAGGCAAATGACCCTCGTTACGCGGACCTCGACGTAGTTCCACGCACC
GAATGCCTCAAGGACGTTGTGGTTCGTTTTGTTCTTACTTCGAGGAAGAAATCCTGCCA
CGCGCAAAGAAGGGCGAAACCGTCTCATCGCAGCACACGGCAACTCCCTGCGTGCGCTG
GTTAAGCACCTTGACGGCATCTCCGATGCTGATATCGCAGAGCTCAACATCCCAACCGGC
ATCCCACTGGTCTACGAAATCGCCGAAGACGGTTCCGTAGTAAACCCAGGCGGCACCTAC
CTCGATCCTGAGGCAGCAGCAGCCGGCGCAGCAGTAGCAAAACCAGGGTAATAAG

>RXA02492-downstream
TAGCTATTTGTAGGTGAGCACTC

>RXA02528-upstream
CTGGCGCGGTATCGATTACAATCTGGTTGGTTATCGGTGGTTTGTGGATGAATGTCATCG
GACTCTGGTAATCGAAAAATTAAAGGTAAGGGGGTGTGGAG

>RXA02528
ATGTCAGCAAAATCGAGCCTCAAGGAAGTTGCTGAGTTAGCTGGAGTCGGTTATGCCACA
GCCTCGAGGGCACTATCTGGCAAGGGGTATGTGTCCCCGCGAGACGCGGGAGAAAGTTCAG
GCGGCGGCTAAAGAGCTGAACTATGTACCAAATCAGCTGGCCAAGGCGTTGCGGGAACAT
CGCAGTGCCTTGGTGGGGTCATTGTTCCGGATTTGTCCAATGAGTATTATTCGGAATCG
CTGCAGACTATTACAGCAGGATCTGAAAGCTGCTGGCTATCAAATGCTGGTTGCGGAGGCC
AACAGTGTGCAGGCGCAGGACGTGGTGATGGAATCGTTGATCTCGATTCAAGCTGCAGGA
ATTATCCACGTTCCAGTGGTCCGGCTCAATTGCTCCTGAAGGAATCCCCATGGTGCAGTTG
ACTCGTGGTGAATTGGGTCTTGGTTTCCCTCGGGTGTGTGTGATGATGAGGCTGGGTTT
TTTCAGCTGACCGAGTCGGTGCTGGGCGGCAGCGGAATGAACATTGCTGCTTTGGTTGGT
GAAGAATCACTTTCCACCACGCAGGAACGAATGCGCGGTATTAGTCATGCGGCGTCGATA
TATGGGGCTGAGGTGACGTTCCATTTTGGCCACTATTCTGTCAATCTGGCGAAGAGATG
GCTCAGGTGGTGTAAACAACGGCCCTTCCCGATGCATTGATTGTGGCGTCTCCTCGGCTG
ATGGCTGGGGTGATGCGTGCTTTTACTCGCCTGAATGTCCGCGTTCCCCACGATGTGGTG
ATTGGTGGTTATGACGATCCTGAGTGGTACAGCTTTGTGCGGCGGGGATTACCAGTTT
GTTCCACCGCATGAGGAGATGGGGAAGAGGCCGTGCGCTTGTGGTAGATCTGATTGAA
AATCCCGAACTTCCCAACGGCGATGTGGTTTTGCAGGGGCAGGTGATCCTTCGGGGGTG
AGCACACATTCCGGG

>RXA02528-downstream
TAGAATTGCCCAAATGTCATCAA

>RXA02539-upstream
GGCTGCTAAGCGTGCGAATGTGCGCGTTGTCACAATCGTTGACCAAGTGTCACCTGACGC
ACAGGTAGTGCTCAGGTGGAGGTGGCCAAAGGAGACCCA

>RXA02539
ATGACTGTCTACGCAAATCCAGGAACCGAAGGCTCGATCGTTAACTATGAAAAGCGCTAC
GAGAATACTATTGGTGGCAAGTGGGTTCACCGGTAGAGGGCCAGTACCTTGAGAACATT
TCACCTGTCACTGGTGAAGTTTTCTGTGAGGTGCGACGTGGCACCGCAGCGGACGTGGAG
CTTGCACTGGATGCTGCACATGCAGCCGCTGATGCGTGGGGCAAGACTTCTGTGCGTGAA
CGTGCTCTGATCCTGCACCGCATTGCGGACCGCATGGAAGAGCACCTGGAAGAAATCGCA
GTTGCAGAAACCTGGGAGAACGGCAAGGCAGTCCGTGAGACTCTTGCTGCAGATATCCCA
CTGGCAATCGACCACTTCCGCTACTTTGCTGGCGCGATCCGTGCTCAGGAAGATCGTTCC
TCACAGATCGACCACAACACTGTTGCTTACCACTTCAACGAGCCAATCGGTGTTGTTGGT
CAGATCATTCCTTGGAACCTCCCAATCCTCATGGCTACCTGGAAGCTCGCACCGGCACTT
CTGCAGGTAACGCGATCGTCATGAAGCCAGCTGAGCAGACCCAGCATCCATTTTGTAT
CTGATTAACATCATCGGCGATCTCATCCCAGAGGGCGTCTCAACATCGTCAACCGGACTC
GGCGGTGAAGCAGGCGCTGCACTGTCCGGCTCTAATCGGATTGGCAAGATTGCTTTCACC
GGTTCCACCGAGGTGCGCAAGCTGATCAACCGCGCTGCATCCGACAAGATCATTCCTGTC
ACCCTGGAGCTCGGCGGTAAGTCCCCATCCATCTTCTTCTCCGATGTTCTGTACAGGAT
GACGCCTTCGAGAGAAGGCAGTTGAAGGCTTCGCGATGTTCCGCTCAATCAGGGTGAA
GTTTGTACCTGTCCTTCCCGTGCACTTGTTTCATGAGTCCATCGCTGATGAATTCCTCGAG
CTTGGCGTGAAGCGAGTTCAGAACATCAAGCTGGGTAACCACTTGATACTGAAACCATG
ATGGGTGCTCAGGCGTCCCAGGAGCAGATGGACAAGATCTCCTCCTACCTGAAGATCGGC
CCAGAAGAAGGCGCTCAAACCTCACTGGTGGCAAGGTCAACAAGTTGATGGCATGGAG

AACGGTTACTACATTGAGCCAACCGTTTTCCGCGGCACCAACGACATGAGGATCTTCCGC
GAGGAAATCTTCGGACCAGTCCTTTCTGTTGCTACCTTCAGCGACTTCGATGAGGCCATC
CGTATTGCAAACGACACCAACTACGGCCTCGGCGCTGGTGTCTGGAGCCGTGACCAAAAC
ACCATTTATCGTGCAGGTCGCGCAATCCAGGCTGGTTCGAGTTTGGGTCAACCAGTACCAC
AACTACCCAGCGCACTCCGCTTTCGGTGGATACAAGGAGTCCGGCATCGGCCGTGAGAAC
CACCTCATGATGCTGAACCACTACCAGCAGACCAAGAACCTGTTGGTCTCCTACGATCCA
AACCCAACCGGACTGTTTC

>RXA02539-downstream
TGATCTAAGCGTTAAGTCCTAGA

>RXA02551-upstream
GCTGCACAAATTCCGCGAAAGGTATCACCATCGACATCACAGATGAAGACCGTGAGATC
TTAAAAAACACCGTCGATTTTCATTTCTCTCTATTAC

>RXA02551
ATGTCCGTATGTGAAGCCCACAACCCCGAAAACCTACTCAACCGGTGGCGGTAACATCATC
GGCGGAGTGGTCAGCCCCACTCTCGCGGCTTCCGAATGGGGTTGGCAAGTTGATCCCCCTC
GGTTTGCGCATCGTCTGAACAACCTACTGGGAGCGCTGGCAGAAGCCACTGTTTCATCGTC
GAAAACGGACTAGGAGCAAAGGACGTGCTTATCGACGGACCCCTCCGGCCCAACAGTAAAC
GATGACTACCGCATCAAATACCTCGACGACGGCGGCTCAGGAATCTTGAAGCGCTACAAG
AAGAAGTCCTTTGATTGGTGCCGCGACATCATCGCCACCAATGGCGAAAGCCTGGAATCC

>RXA02551-downstream
TAAGAAATAAAGGTAGGTGTAC

>RXA02556-upstream
TGCCATCATATTAAGGCCAAATTGCTTGGATCCTGGGATTTATTTAATTAGATTAAATCC
GTAGAAATTAGCCCATGAAGCATGGAAAGGCGAAAACCC

>RXA02556
TTGATCGTTTTCCACCCAGCCCATTACTGATCGCAGCGCACTCTCGGCAGAACACGCAGAG
GTGATCAAAGCAACGCTTCTCTCGTGGGCGGCAAGATTAATGAGATCACGCCGTTTTTC
TACAACAAGATGTTTGCGGCTCACCCAGAATTGATCGCTAACACCTTCAACGGTGGCAAT
CAGAAGCAAGGCGATCAGCAGAAGGCGCTGGCGGCTTCGATTGCAACGTTTGCCACCATG
CTCGTTACTCCTGATGCTCCTGACCCAGTTTCAGCTGCTGTCCCGCATTTGGCCACAAGCAC
GTGTCCCTCGGCATTACTGCTGATCAGTACGACATTGTTTCAGAGCACCTGTTTCGCCGCA
ATCGTTGAGGTTTTGGGAGCGGAAACTGTACCCGCACCTGTGCTGAAGCCTGGGATGCT
GTCTACTGGATCATGGCAAATGTGCTGATCGGTTTTGAGAACAACCTTTATGCTTCCAAC
GATCTGGAGCCTGGCGACGTCTTCCGCGAAGTCACCGTGACCGCGAAGAAGCAGCTCAGC
GCAACCGTCTGGGAATACACCCCTGGCAGGTGAGCTGGTTGCCCCAGAGCCAGGTCAGTAC
ACCTCCATCGGAGTAGTGCTTGACGACGGCGCCCGCCAGCTGCGCCAGTACAGCTTGCTC
GGCGGCTCCGACACCGAGTACCGCATTGCGGTTGAGGATAACGGCGAGGTTTCTGGATTCT
CTGCGTGATCGCGTATCCGTTGGTGACAAGATTGAAGCCACCATCGCGGCCGCGACCTG
GTTCTTAACAAGGACACCAATCCAGTTGTGCTGATTTCCAGGGCATCGGCTCCACCCCA
ATGGTGGGCATGCTCGCAGGTATGAACCCTGAACGTGACGTTGTGGTTTTGCATGCTGAC
CAGGCCGAGTCCACCTACGCGCAGGTGGAGGAAGTGCAGGGGCTCGTCGAAAAGCTCCCT
AAGGCTGCGTTTTGAAATCTTCTACCGCGACAACGACAGTGGCTCGAGGTCGCTGGCCGC
ATTCCATCAGGTGCGTCCGTGTACCTGTGCGGTGGCGTGGAATTCTTGAAGAAGTGCCT
GAGCAGATCGAGGCGCTCGATGAGCAGCCTCGCGACGTAAACTTCGAGCTCTTCGCCACA
AACGACTGGCTGATTTCC

>RXA02556-downstream
TAAGCCACACCCCAAGAACTTCC

>RXA02560-upstream
TTGGGGCAAGCCAGCTAACGCATTTCTTGTGGAACCGCAGACATTGAGGCCGCCACGC
GGAACCTCTAAGAGCAGTGGAATGAAATAATCCGGTGCTG

>RXA02560
ATGCAGGGCAACTCGCTTAATCTGGCAGACAACAGCGAGAGAAAGAAGCCCATGCCGTCA

CCAGGAGAACTTTTAGCCGCCCGCTACGGACAACCTGCAACCTGGACGCCACCGCAGTGG
 AATGAGACGCTTGATGTCATTACCAGCATCGATCAGTTCGAGGTGGTTGGATAAACCG
 GTTGATGATGACACCATCCGCACCATTATTTCCGCCGCACAATCGGCTGGAACCTCTTCC
 AATAAGCAGGTCAATTTCTGTCATCGTGGTTAAAGATCCTGAGCTGAGGAAAGGCCTCGCG
 GGGATCACTCGCCAGATGTTTCCGCACCTTGAGCAGGTTCCCGCGGTGCTGATTTGGTTG
 ATTGATTATTTCCGAATCAGTGCGGTGGCAGCCAGAGAAGATCTCCCAACAGGGGCTCTT
 GATTATCTCGATGAGGCCGCGTGGGGGTTCTCGACGCCGGAATCGCAGCTCAAAACGCT
 GCAATTGCTGCGGAGTCACTTGGATTGGGAACGCTCTATTTGGGTTTCGGTGCGCAACGAT
 GCGGAAGCCGTGCACAAATTGCTTGGCCTTCCACCTGAGATCGTGCTGCTGCGTGGGCTTG
 GAAATGGGGCATGCGGATCCGCCTGAACCTGCCGGAATTAAACCTCCCCTGCCACAAGAA
 GCCATTGTTCACTGGGATACCTACACCGAGAAAAACCTCGAACTTATCGATTCTTACGAC
 CGCGCCCTCGACACTTACTATTCTCGCTACGGCCAGCACCAGCTCTGGTCGAAGCAGACG
 GCGCATAGGGCGGCGTCTAAACGCTGTTACAAGAACCAAGAA

>RXA02572

GCGGTGCTGAGATTTGCGAGCCGACCGGCGCCGATGCGGTTGCGCTTGTGGATGCCATC
 GGTACGACGATCGTATCGGCCGAAAGTTCTTAGGCGCGGGCCTGGGATTCGGTGGCGGT
 TGTTTGCTAAAGACATCCGCGCTTTCATGGCACGCGCGGGCGAATTGGGTGCTGACCAG
 GCATTAACGTTCTTGCGTGAGGTGATTCATCAATATGCGTCGTCGCGACCGTGTGGTG
 CAGCTGGCCAAAGAGATGTGTGGCGGTTTCGCTGCTGGGCAAGCGGGTTACAGTGCTCGGC
 GCCGATTCAAACCCAACTCGGACGATGTCCGCGATTCTCCGGCGCTGTCGGTTCGCGGGT
 TCGCTGTCGCTCCAGGGTTCGCGCGGTCTCGGTCTACGACCCGGAAGCTATGGACAACGCT
 CGACGCGTCTTCCCCGACGCTCAGCTATGCGTCCAGCACTAAAGAGGCGCTTATCGACGCC
 CACCTCGTCGTTCTTGCCACTGAATGGCAAGAATTCCGCGACCTTGACCCCGAAGTGGCG
 GGAGGGGTGTCGAGAAGCGCGCTATTATTGATGGCCGAAACGTCCTCGATGTTGCCAAA
 TGGAAGGCCCGCGGTTGGGAAATGGAAGCGCTCGGCCGCAACCTT

>RXA02572-downstream

TAGTGGGTGGATCAGGCGGGGC

>RXA02596

CCTGTGGTCTACACCGGCCCCACTCGACCTCTACTTCAACTACGCAGAGGGCAAGCTGGGA
 TGGCGCACCCCTCGACTTTGAAACCGAAGTAGTAGAAACCGGTGACTTCCAAGGAACCCCA
 GTGATGAATAACAAGATGCGGACGTACCTTTCACCCGCATCCACGAGTTCGTCACCTC
 CACCCAGAGCGTGATGACAGTTACCCCAAGGATAAGACCGTCATCATGCGCGAGTTCTCC
 CGTTTTCGAGATAACGAGGATGAGCCTTATTACCCAATCAACACTCCAGACGACCGAGAC
 ATGCTGAAGCAGTACCGCCTTCTGGCTGCTGAAGAGGCTGCTAATAATAAGGTGCTGTTT
 GCGGTGCGACTGGGCACGTACCAGTACCTCGACATGCACATGGCTATCGGTTCTGCGCTG
 AGCATGTTTGACAACAAGCTGGTGCCGTTCTTTGAAGAAGGCACACCGCTAGAGCAGGAA
 CGCGGACAC

>RXA02596-downstream

TAAAAGGAAGGCATCTCCACA

>RXA02611

GATGCGTGGTTCGGATCCTATGGCTACGTGGCGTCATGCGATTACCACTAAGATTGAGGCC
 GGCCAGGGTTTCGGATGAGTTGTATAACGACTTTGAGCACGGGGCTCAGCTGTTTGAGCGT
 GCTGCGGAGAATTTGTCTAAAGAGGATAGGACTGCGCTTTTCGACGTCGCCTCCTCTCTG
 CGGCGCGGCGGCGATGTACGCGCACGTCTCGCCCCAGCGCTCACCGCGAGTGTCATCAT
 CTTTTAGAACTTAACCCGTTGCGTGAGTTGGTCACGATGGGTGAAAACCTGCAGGTTTCGT
 GTCGAGCGTTCGTGCCGCTTTGGTCAACTCTTGGTATGAGCTTTTCCCTCGTTCCACAGGT
 GGTGTTGGGATGAGTCCGGCACCCCGTTTCATGGCACTTTTCGCTACCACTGCTCAGGCGTTG
 GAGCGTGTCGCGAAGATGGGCTTCGATACTGTTTACTTCCCGCCGATCCATCCGATTGGC
 GAGGTCAACCGCAAGGGCCGCAATAATACGCTGACCCCGGAACCTCATGATGTGGGTTTCG
 CCGTGGGCTATTGGTTCTAAAGATGGTGGGCATGATGCAACGCATCCGCGGTTGGGCACC
 ATTGAAGATTTCCAGGCGTTGTTGGCTCGCGCACGGGAACCTCAATTGGAAGTTGCACTC
 GATCTAGCTCTGCAGGCTGCCCCGTGATCATCCATGGGCGCAGGAACACCGCGAGTTTTTC
 ACGGTGTTGGCTGATGGCACCATTCGCTATGCAGAAAACCCACCGAAGAAGTACCAGGAT
 ATTTATCCCATCAACTTTGATAATGATGCTCCGAAGATCTACGAAGAGGTCTATCGTGTG
 GTGAAGTTCTGGGTGGATTGTTGGGTGTGACCACATTCGCGGTGGATAACCCGCACTAAG
 CCCGCTAATTTCTGGCAGTGGCTTATTTCTGCCATCCATAAATCAAACCTGAGGTCATT

TTCTAGCGGAGGCGTCTACTCGCCCGGCACGTCTGTATTTCTTGTCCAAGATTGGTTTC
TCCCAGTCTTACACCTACTTCACCTGGAAGGTCACCAACGAGGAGCTCACCGAGTTCGCT
ACTGAGATCGCCCCCATGGCGGATATTTCTCGTCCGAACCTGTTTGTGAACACTCCCGAC
ATTTTGCATGCGTCTCTGCAGCATGGTGGACGCGCCATGTTTCGCTATCCGCGCCGCATTG
GCCGCCACGATGTCTCCTGTGTGGGGCGTATATTCCGGATATGAGCTCTTTGAGCACGAG
GCCGTCAAGCCTGGTTCGGAAGAGTACTTGGATTCTGAGAAGTACGAGCTGCGTCCCCGC
GATTTTCGAGGGTGCTCTGGAACGTGGCGATTCTCTCGAGGATTACATCGCTCTGCTCAAC
CAGATCCGTCGCGCGAACCCTGCCTTGACGCAACTACGCAACATCCACTTCCACGAAGCG
GACAATGATCAGATCATCGCCTACTCCAAGGTTGATGCTTTGACCGGAAATACCGTGTTG
ATTGTGGTCAACTTGGATCCACGTAGTGCTCGTGAGGCTACTGTTGCGCTTGATCTTGGA
GCGCTTGGCTTAGAAGCGGGTGACAGTTTGGGTGCGCGATGCGATCACCGGCTCCCGT
TACCTGTGGTCAGAGACGAACTTTGTCCGCTCGAGCCCCTACGCGATGTCGCCCACATC
TTTGTCTTCTGAACTTCCAGCGTCTCGCCGTGAGCGTCTCGCGTGGCGCGAAATCAAG
ACCTACCGCGCG

>RXA02611-downstream
TAATTTCCCATCTCTGTACCTTC

>RXA02612-upstream
GAACTTCCAGCGTCTCGCCGTGAGCGTCTCGCGTGGCGCGAAATCAAGACCTACCGCGCG
TAATTTCCCATCTCTGTACCTTCTATCAAGGATTATCATC

>RXA02612
ATGACCGTTGACCCCGGAGCCACATCACCATCCCTGAAGCAGATCTGGCCCGCCTGCGC
CACTGCAACCATCACGATCCTCATGGATTTTATGGTTGGCATGAGACCGAAGCTGGTTTCG
GTTATCCGTCGCGCGAGGTGCGCGGACGCGAGGTTAATTTGCTTATCGACGACACCTCC
CACGTATGACCCCTATCGGCGACGACATTTTCGCAATTGACTTAGGTACCGCGAGCGC
GCTGACTATCGCTTGAAGTCACCTGGCCTGATCAAGAACCGCAGGTCAAGGCTGATCCA
TACTACTTCTCCCCACCGTAGGCGAGATGGATATTTACCTCTTCTCTGAGGGACGCCAT
GAGCGTTTGTGGGAGATTCTCGGTGCCAACATCAAGACCTACCAAACCTGCGCTCGGAACA
GTTTCGTGGCACCGCATTTACTGTGTGGGCTCCAAACGCAATTGGCTGCGCAGTGGTTCGGT
GGCTTCAACGGTTGGAATGCATCCCAGCATCCGATGCGTTCTATGGGTGGTTCGGGTCTG
TGGGAGCTGTTTCATCCAGGCATAGAGGAAGGCGAAGTGTACAAATTCGCCGTCCAAACC
AGGGAAGGCCAACGTGCTGATAAGGCCGATCCGATGGCTCGTCGCGCAGAACTGGCGCCG
GCAACCGGATCTATTGTGCTTCTCTGAGTACCAGTGGCAGGATTCCGAGTGGCTGCGC
GAGCGTTCCCAAACCTGATCTCGCATCCAAGCCAATGAGTGTCTACGAGGTCCACCTCGGT
TCTTGGCGCTGGGGTAAGAACTATGAGGATTTGGCTACTGAGCTGGTTGATTACGTGCGA
GATCTTGGCTACACCCACGTGGAATTCCTCCCTGTGCGAGAGCACCCCTTCGGTGGTTCC
TGGGGTTACCAGGTACCGGCTACTACGCACCGACCTCTCGTTGGGGTACTCCAGATCAG
TTCCGTGCGCTAGTCGACGCTTTCCACGCCCGCGGTATTGGCGTGATCATGGACTGGGT
CCTGCCCCACTTCCCTAAGGATGATTGGGCTCTTGCCCGCTTTGATGGCGAAGCCCTCTAT
GAACACCCTGACTGGAGGCGCGGCGAACAAGGATTGGGGCACCCCTGGTCTTTGACTTC
GGTCGCAACGAAGTCCGCAACTTCCTCGTCAATGCGTTGTACTGGATTGAAGAATTC
CACATCGATGGTCTGCGCGTGCACGCCGTGGCCTCCATGCTGTACCTCGATTACTCCCGT
GAGCACGGCGAATGGGAACCAAACATCTACGGTGGTGCAGAGAACCTCGAGGCAGTGCAG
TTCCTGCAGGAAATGAACGCCACGGTGTGCGACTGCACCCTGGTGCCTCACCATCGCT
GAGGAATCAACTTCATGGCCTGGCGTGACCGCACCAACGTGGGACGGCGGCTTGGGATTC
TCCCTCAAGTGGAACATGGGCTGGATGCACGACACCTTAGAGTACTTCTCCAAAACCCCT
GTGCACCGCGCATTTCCACCACAGTGAGCTCACTTTCTCCTTGGTGTACGCATTCTCTGAG
CGTTTTGTACTTCCGATCTCTCACGATGAAGTCGTCCACGGCAAGGGTTCCTGTGGGAC
CGTATGCCTGGCGATACTGGAACAAGGCGCTGGTCTTCGCACCTTCTTGGCTACATG
TGGTCACACCCAGGCAAGAAGCTGCTTTTCATGGGTGAGGAGTTTGGTCAGCGTGAAGAG
TGGGCTGAAGGCCAGGACTGCCATGGGATATTGTCGACGGCTGGCAAGGCGAGTACCAC
GAAGCCATCCGCACTCTGACCCGCTCCCTCAACGGTGTCTACTCAGACTCCCTGCGCTG
CACACTCAGGATTTACCGGAGAAGGCTTCACATGGAATAAGGGCGACGACGCCACCAAC
AACATTTTGGCGTTCACTCGTTTCGGCAGCGACGGCTCCAGATGCTGTGTGTATTCAAC
CTGTCTGGAACCTCCAGCCTGAGTACCAGCTCGGTGTTGCAGCGGGTGGCGAATGGAAG
CTCGTTCTCAACACTGATGATGCTGAATTCCTCGGTGCAGAAAACGATATCGCTACTTCC
GTTCAAGCAGCAGCGACACCACGCGATAATTTGCCTACTCACTCTCACTGCATGTCCCA
GCGATGAGTGCTCAGTTCTACTCACTGCAGAAG

>RXA02612-downstream
TAGGACACAGGAAAATGCATCCT

>RXA02621-upstream
ATGTACCTGACTGGTGCGGACACTTCGCTCACTAAAGTTTTTAAAGATTTTCGCTTGAAG
GCAGACCATAAGGTCTGCCTTTTCGCGTATTAATGAGTAC

>RXA02621
ATGTCTGAACCTTATTTGTGGACCAGCTATTCTCTTCGCACCAGCTGGACGTGCTGAGATC
ATTCCAAAAGCAGCATCGAAGGCCGATATGGTCATCATTGATTTGGAAGATGGGGCAGGG
GAGGTAGACCGTGAGGTGCGCTACAGGAACATTAGAGAATCGGGGTGGATCCTAAACGA
ACCATTTGTGAGAACCGTAGGGCCGAGCGATCCACACTTTTTGGCTGACGTGGAGATGGTG
AAGTCCACGGATTTACACTTGTTATGGTTCTTAACTTCTTGGCAGCGTGCCTGAGGAA
TTAGATGGCCTCAACATTATCGCCATGATTGAAACCCCTCAGGCTGCAACCAGCATTCCT
CAGATTGCTGCGGACCCTAAAGTCGTTGGAATGTTCTGGGGCGCGGAGGATCTCACACAC
CTCTTTGGGAGGCACTCATTCTAGGTTCTTGGGTGATGAGTCCAATGAAGGCTCCTACCGA
GACACCATGAGGCTTACACGCGCCCTGATGCACCTCCACGCGCGCGCAATGGGAAGTTC
ACCATTGATGCCATCCATGCGGATTTCCACGATGAAGAGGGCCTCTATTTAGAAGCGGTC
GATGCTGCGCGGACTGGTTTCGCTGGCACCAGCATGCATTACCCCCAAGCAGATCGAGATT
GTTTCGAGAGCCTATCGGCCAGAGGCTAACAGTTGGAGTGGGCGAAGAAAGTGGTGGAG
GAAGCAGAAAACCATCCAGGTGCGTTCAAACCTGGATGGTCAGATGATTGATGCTCCGTTG
ATTTTCGAGGCGCGGATGGTTATTTTCGCGTCAGCCTGCT

>RXA02621-downstream
TGATTAGTTCAAGCGTTTTTTTCG

>RXA02640-upstream
ACCAACGACGACGCCGGTGTAGCAGATGTATTGGAGTGGTGGTTCTAATAGGTGGTGTTA
AAACACTGCTTAGTGGCCCAATACGTGCAAAAATAAGGCC

>RXA02640
ATGAGAATCTCAAAGGCCAATGCGTATGTTGCAGCGATTGACCAAGGCACCACTTCCACT
CGGTGCATCTTCATTGATGCCCCAAGGAAAAGTGGTGTCTTCTGCTTCCAAGGAGCACCGC
CAAATCTTCCCACAACAGGGCTGGGTAGAGCACGATCCTGAAGAAATTTGGGACAACATT
CGATCTGTCGTGAGCCAGGCGATGGTCTCCATTGACATCACCCACACGAGGTTGCATCG
CTGGGAGTCAACCAACCAGCGGAAACCACCGTGGTGTGGGACAAGCACACCGGCGAACCT
GTCTACAACGCAATCGTGTGGCAAGACACCCGCACCTCTGACATTTGCCTAGAGATCGCG
GGCGAAGAAGGCCAGGAAAAGTGGCTTGACCGCACCGGCCTGCTGATCAACTCCTACCCA
TCGGGGCCCCAAATCAAGTGGATTCTCGACAACGTTGAGGGAGCTCGCGAACGCGCCGAA
AAGGGCGACCTTTTTGTTTGGCACCATTGGATACCTGGGTGCTGTGGAACCTGACCGGCGGT
GTCCGCGGCGACGACGGTGTGATGATGCCATCCACGTACCGATGTCACCAACGCATCCCGC
ACACTATTGATGGATCTCCGCACGCAACAGTGGGATCCAGAACTATGCGAAGCCCTAGAC
ATTCGATGTCCATCTCCCTGAGATTCTGCTCCCTCCGTCGGAGAATTCCGCTCCGTGCGC
CACCGCGGAACCTAGCCGACGTCCCGATTACTGGCGTGCTCGGCGACCAGCAAGCGGCC
CTTTTTGGTCAGGGCGGATTCCACGAAGGTGCTGCTAAAAATACCTACGGCACCGGCCTC
TTCCTGCTGATGAACACCGGCACCTCGTTGAAGATTTCCGAGCACGGCCTGCTGTCCACC
ATCGCCTATCAACGGGAAGGATCCGCTCCGGTCTACGCGCTGGAAGGTTCCGTATCCATG
GGCGGTTCTTGGTGCAGTGGCTGCGCGACAACCTACAGCTAATCCCCAACGCACCAGCG
ATTGAAAACCTCGCCCCGAGAAGTCGAAGACAACGGTGGCGTTTCATGTTGTCCCAGCATTC
ACCGGACTGTTTCGACCAACGTTGGCGCCCCGATGCTCGTGGCGTCATTACAGGCCTCACC
CGTTTTTGCCAAACCGCAACACATCGCCCGCGCAGTCTTGAAGCCAACGCCTTCCAAACC
CGCGAAGTTGTGGAGCCATGGCCAAAGACGACGAGGCAAGCCCTCGAATCCCTCCGCGTC
GACGGTGCATGGGTGGAAAATGACCTCCTCATGCAAATGCAAGCCGACTTCCTCGGCATC
GACGTCCAACGTCTCGAGGACGTAGAAACCACCGCCGTCGGCGTCGCATTTCGCTGCAGGT
CTCGGCTCTGGATTCTTCAAACAACCTGACGAGATCGAAAACTTATTGCAGTGAAGAAA
GTCTGGAACCTGACATGAGCGAAGAAGAGCGCGAACGTGCTATGCCGAATGGAATAGG
GCAGTGGAGCATTTCTTATGACCAGGCC

>RXA02640-downstream
TAGCTGATTTGGGTCGGCCTTTA

>RXA02642-upstream

AAGGTATCTGGGTGTGGATATGCCCTGCTAACTGGAGAACTTGGCCCGATCGGGTGTCT
GAAATTTTCGGCAACGCCGAATGTAAGTTAGTGTCTGAATGC

>RXA02642

ATGACGGAATCGAAAAATTACGACTTAATCGTTGTAGGCTCCGGCCTCTTCGGGGCTCACC
GTGGCTGAGCGTGCAGCTAGCCAGCTGGGTAAGAAAGTCTCATCGTTGAACGCCGCTCG
CACCTCGGTGGCAATGCTTACTCTGAAGCAGAACCAGAGACCGGCATTGAAATCCACAAA
TACGGCGCGCACCTCTTCCACACCTCCAACACACGCGTGTGGGAATACGTCAACCAGTTC
ACCAGTTTACCCGGCTACCAGCACCGCGTCTTCGCAATGCACAACGGCACCGCCTACCAA
TTCCCCATGGGACTGGGCCTGATTAACCAGTTCTTCGGCAAGTACTACAGCCCAGATGAA
GCCCCGTGAGCTCATCAAGGAACAGTCTGCAGAAATCGATTCTCCGACGCCACCAACCTC
GAAGAAAAGGCCATTTCCCTCATTGGTCGCCCACCTTACGAGGCATTTCATCCGCGACTAC
ACCGCAAAGCAGTGGCAG

>RXA02654-upstream

TATTTTCGGAAATTTATACAGCAATCCTCGAAATCCTAATAAAGATCCCTTATCGTGGGA
GAGGTACGGTAGTTTCGTTTCGAGGACAACGTTCGAGAAAGGC

>RXA02654

ATGATTTTCATTGCTAAATGATCCACGTACGCTATTCCCGAAAGTCGATCCCCCAAAGCAA
AGCCAGCCGGAACCAGGCCTAGATATAAACTTTCCCCCAAGCCGATATTGGTCTCTCC
AGCTATCAAGGAAGTGGAAAGGCTTAAGGGCCGCAAGGCTCTTATTACTGGTGGCGATTCT
GGGATTGGAGCTGCCGTAGCAATCGCTTATGCTCGCGAGGGGGCAGATGTTGCGATCGCT
TACTTGGCCGAAGAACAAGCCGATGCTGACAGAGTGTCCAAGCAATCGAGGAAACAGGT
CAAAAAGCTTTTCTTTCCCTGGTGATCTCCGTGATCCAGAATACTGTCGCTCGCTGGTC
CAAGAGACGGTGAACGCTTTAGGTGGCCTAGACATCTTGGTCAACAACGCGTCACGTCAG
GTGTGGGCACCTGGTTTGACCGAAATTACCGACGAAAACCTTCGACCAGACTTTGCAGGTT
AACCTCTATGGTAGTTTTCGGGTTACCAAAGCAGCTATACCTCATCTGAAGCCCGGATCA
TCGATAATCTTTACATCGTCCATTACGGCGTACCAACCTTCGGAAACCTCTTGATTAC
GCCATGACTAAGGCGGCATTGAACAATTTGTCAAAGGGCTTGGCAAGTAGTCTGATAGGC
GATGGCATTTCGGGTAAATTCGTAGCCCCAGGTCCTTTCTGGACGCCGTGCAACCCAGC
CATGGTCAGCCACAAGAGAAAAATAGAAGGATTGGCCAGCACGCTCCGATTGGAAGAGCG
GGTCACCTGTGTAGTTGGCAGGTGCGTACGTTTTTCTCGCTTCTGACGAAGCCAGCTAT
GTGGTAGGAGAAACCTGGGAGTCACAGGTGGGACGCCACCCCA

>RXA02654-downstream

TAGTCGGTACAAGCGGAATCACT

>RXA02666-upstream

GCTCGGCGACGAGGAAGAGAAGGACGCATTTCGACGACTTCGACGATTCCGACGTGGA
TCTTGACGATCTGAGCTTCGACGACGAAGATTAGACGCCC

>RXA02666

ATGTCGTCTACACGAATCCCCGTATCGCACTCCTCGCGGCGGCGGGCGCGGAACCCGC
CTCGGCGGACCCATCCCCAAAGCATTTCGTACGTTGCGTGAACGCACACTTTTAGAGCGC
TCGCTCCAAGCCATGCTCACCTCCGAAAGCGTCGACGAAATCATCATCTCGTCAGCCCC
GACATGGAAACCTACGCCCGCGATTTGCTGCGCAAACGCGGTCTTTTGAACGACCCCGAA
GGGGTACGCGTACGGCTCGTGCACGGCGGCGGGGAGCGCGCGGACTCGGTCTGGGCAGGC
CTTCAGGCAATTTTCGCTTGACGACGCCACCCCGATGCAATTGTCTTAATCCACGACAGC
GCCGAGCGCTCACACCACCCGGCATGATTGCGCGCGTGGTGCGCAAAGTCCACGAAGGC
GCCACCGAGTCTCCAGTACTGCCAGTATCGGACACCATCAAACGAGTGTCCCTTGAT
GGCGGAGTAGTTGTGCGACACACCCAACCGTGCAGAACTTCGCGCCGTCCAAACCCACAA
GGCTTCCTGCTGTCCGAATTTGTTGCAGCGAATGAGAAATTCCTTCGCCGACCCCAACCCA
GGCTTCATCCCAACCGATGACGCCAGCTTGATGGAATGGTACGGCGCAGATGTAGTCTGC
GTACAAGGCGACCCAATGGCGTTTAAAGTAACAACCCCATTTGATATGATGCTGGCACAA
CGCATACCGACGAAGCCGAACCCACAATATTTGAGGTACCAGGTGAC

>RXA02666-downstream

TAACCCAATCATCCCCCGCGTAG

>RXA02675

ATCCTCATGACCGGCATGCGCCACGAAACTTCGGCATCATGATCGCCCCGGGAGACCTC
GCCGTGCAACTCGGCTTCGACCGCATGGCAGAAGTCCCCAACTGATCATGGCCCTTGCA
GAAGCCGCCCACGTCCCAACCATCTTGGCCACCCAAGTCCTGGAAAACATGGCCAAAAAC
GGAATCCCATCTCGCGCAGAAATCACCGACGCAGCAATGGCACTTCGCGCTGAATGCGTC
ATGCTGAACAAGGGACCACACATCAACGACGCCATCAAGGTCCTCACCGAAATGAGCCGC
AAACTTGGTGCATCCCAACGAAAGAGTAGGCTGCTGCTGCGCAAGGTGAAGAGCTGGGAA
GAG

>RXA02675-downstream

TAACTCACAAAGGCGATTGGCGT

>RXA02694-upstream

ATTAAAGGTGTAACAAAGGAATCCGGGCACAAGCTCTTGCTGATTTTCTGAGCTGCTTTG
TGGGTTGTCCGGTTAGGGAAATCAGGAAGTGGGATCGAAA

>RXA02694

ATGAAAGAAACCGTCGGTAACAAGATTGTCTCATTGGCGCAGGAGATGTTGGAGTTGCA
TACGCATACGCACTGATCAACCAGGGCATGGCAGATCACCTTGCGATCATCGACATCGAT
GAAAAGAAACTCGAAGGCAACGTCATGGACTTAAACCATGGTGTGTGTGGGCCGATTCC
CGCACCCGCGTCACCAAGGGCACCTACGCTGACTGCGAAGACGCAGCCATGGTTGTCATT
TGTGCCGGCGCAGCCCCAAAGCCAGGCGAGACCCGCCTCCAGCTGGTGGACAAAAACGTC
AAGATTATGAAATCCATCGTCGGCGATGTCATGGACAGCGGATTTCGACGGCATCTTCCTC
GTGGCGTCCAACCCAGTGGATATCCTGACCTACGCAGTGTGGAAATTCTCCGGCTTGGA
TGGAACCGCGTGTATCGGCTCCGGAACGTCTGACTCCGCTCGATTCCGCTACATGCTG
GGCGAACTCTACGAAGTGGCACCAGCTCCGTCCACGCCTACATCATCGGCGAACACGGC
GACACTGAACTTCCAGTCCTGTCTCCGCGACCATCGCAGGCGTATCGCTTAGCCGAATG
CTGGACAAAGACCCAGAGCTTGAGGGCCGTCTAGAGAAAATTTTGAAGACACCCGCGAC
GCTGCCTATCACATTATCGACGCCAAGGGCTCCACTTCCTACGGCATCGGCATGGGTCTT
GCTCGCATCACCCGCGCAATCCTACAGAACCAAGACGTTGCAGTCCCAGTCTCTGCACTG
CTCCACGGTGAATACGGTGAGGAAGACATCTACATCGGCACCCAGCTGTGGTGAACCGC
CGAGGCATCCGCCGCGTTGTGCAACTAGAAATCACCGACCACGAGATGGAACGCTTCAAG
CATTCCGCAAATACCCTGCGCGAAATTCAGAAGCAGTTCTTC

>RXA02694-downstream

TAAATCTTTGGCGCCTAGTTGGC

>RXA02695-upstream

AAGTGTTCATTGGAACACTTGCGCTGCCAACTTTTTGGTTTACGGGCACAATGAAACTG
TTGGATGGAATTTAGAGTGTGTGTAGCTTAAGGAGCTCAA

>RXA02695

ATGAATGAGTTTGACCAGGACATTCTCCAGGAGATCAAGACTGAACTCGACGAGTTAATT
CTAGAACTTGATGAGGTGACACAAACTCACAGCGAGGCCATCGGGCAGGTCTCCCCAACCC
CATTACGTTGGTGCCCGCAACCTCATGCATTACGCGCATCTTCGCACCAAAGACCTCCGT
GGCCTGCAGCAACGCCTCTCCTCTGTGGGAGCTACCCGCTTGACTACCACCGAACCAGCA
GTGCAGGCCCCGCTCAAGGCCGCCCCGAATGTTATCGGAGCTTTCGCAGGTGAAGGCCCA
CTTTATCCACCCTCAGATGTGTCGATGCCTTCGAAGATGCCGATGAGATTCTCGACGAG
CACGCCGAAATTCTCCTTGCGGAACCCCTACCGGATACTCCATCCTGCATCATGGTCACC
CTGCCCACCGAAGCCGCCACCGACATTGAACTTGTCCGTGGCTTCGCCAAAAGCGGCATG
AATCTAGCTCGCATCAACTGTGCACACGACGATGAAACCGTCTGGAAGCAGATGATCGAC
AAGCTCCACACCGTTGCAGAAGAAGTTGGCCGGGAAATCCGCGTCAGCATGGACCTCGCC
GGACCAAAAGTACGCACCGGCGAAATCGCCCCAGGCGCAGAAGTAGGTGCGCGCAGAGTA
ACCCGCGACGAAACCGGAAAAGTACTGACGCCCGCAAACTGTGGATCACCGCCCACGGC
TCCGAACCAAGTCCCAGCCCCGAAAGCCTGCCCGGTGCCCCGCTCTGCCGATTGAAGTC
ACCCCAAGATGGTTGACAAACTAGAAATCGGCAGCGTCATCAACGTCCCAGACACCCGC
GGATCCCGCGGAGCATTACCGTGACCAGGGTTTTTGTATGGCGCGGTCTCGCCGAAGGC
CCACAAAAGCCTACATCTCCAACGGCACCCCTCCTGGAACACAACTACGACCGCTCCCGG
GTCTACGGCATCCCCGCCGTAGTTACGCGCATCAACCTCAAAGTCGGCGACCGCCTCATC
CTTACCGACGAAGAACTACCTACGATCCATCCCTCGGATCCGGCCGCACACCACGCATC
AGCTGCACCCCTTCCACAAGCAGTCGATGCAATTAAAGTCGGGCACCGCGTGCTTTTCGAC

GACGGAGCCATCGCCGAGTCTGCATCGACAAGACCTCCACTGCCGACGGCCACAACGAC
GTAGAATTGGAAGTCACCCACGCCCCGCCCACAAGGCGTAAACCTGGCCGCATACAAGGGA
ATCAACCTCCCAGACTCCGAACCTCCACTCCCAAGCCTCACTGAAGAAGACCTCCAACAC
CTGCGCTTTGTGCTCAAAATACGCCGACATCGCAGCCATCTCCTTCATCCGAAACGTGCGC
GACGTGGAATACCTCCTCCAAGCACTCGCCGACATCGGAGAT

>RXA02729-upstream

GAATTAATTGCAGGCACGCTAGCGTGACGAAAACCTACGATCCCCACTGCCCTTATT
CATCGTGAATCAATCATCAACTCCACTTTAAGGAAGAAG

>RXA02729

ATGGACTCCCCAATGAGTAACTCAACCGGTACCGACATTGTGCTGTTGTCGGATCCATCAAT
GCCGATCTCACCGCAAAAGTTCAACGCCACCCTGAACCTGGAGAAAACCTCCTGGGTAGC
GGCGGCACAGTGAGTGCTGGTGGCAAAGGCGCCAACCAAGCTGTGGCGGCAGCGCAATTA
GGTGCCAAAGTCACCATGATCGGTGCGGTGCGAACCGATCAAATGGCTGGCGAGGCGCTG
ACACATTTGCGTCAATCAGGAGCAGATATGTCCGCGATTGCCACTGTGGACGGTCCCCT
GGTCTTGCCATCATCACTGTGTCTGACGATGGGGAAAACACCATCATCGTTATCCCTGGC
GCTAACGCTTCTGTCAACGCGGAATTTGTTGATAAACTCCCAACTCATTGAGAACGCC
GGCATTGTGTTGCTTCAGGGTGAGATCCCTGCCGATGGTTTCGAGCGTGCCGTTGATCTT
TCACAAGGACGTGTGGTGATCAATCTGGCTCCAGTTGTGCCCGTGGGACATGATCAGCTG
CGTCGTGCCGATCCATTGCTGGTCAACGAACACGAAGGCGCTCTGGTGCTGGACATGCTT
GGAATCCAGCGACCACGTCTGATCCCCAAAGTTTGGTCACTGAATTGCTGGAGCAGGGT
TTTACTTCCGTGGTGATGACACTTGGTGCCGAAGGTGCTCTGGTTGGCACGCCGGGCCAA
CTCACGGCAATTCTTACCCCAAAG

>RXA02730-upstream

CCAACATCGCCTTGCACGTAATAGGTTAAAACACAAGTGAATGTAATCGTTTGCAGCAAT
CGATTACATAAAGGTAGATAATGAGATAAAGCGAGGCGCT

>RXA02730

ATGGCGACGGAAAAATTCGACCGACTCTTAAAGATGTGCTCGTCAAGCAGGTGTCTCC
ATCGCCACAGCATCACGAGCACTAGCGGATAATCCGGCGGTTGCTGCATCGACTCGTGAA
AGAATCCAACAATTAGCCTCTGATCTGGGTACCAGGCCAATGCTCAAGCTCGTGCGCTT
CGCAGTTCTCGCAGCAACACCATTGGTGTGATTGTTCCCAGTTTGATTAAACCATTACTTC
GCCGCAATGGTTACTGAAATTCAAAGCACCGCCAGCAAAGCTGGACTTGCCACGATTATC
ACCAACAGCAATGAAGATGCGACCACTATGTCTGGGTCTTTGGAGTTTCTCACCTCGCAT
GGTGTGATGGAATCATCTGCGTACCTAATGAGGAATGCGCGAATCAACTAGAGGACTTG
CAGAAGCAAGGAATGCCAGTGGTGTGGTTGACCGAGAGCTTCCAGGAGACTCCACCATC
CCAACGGCGACCTCTAACCCCCAACCAGGAATCGCCGCAGCAGTAGAACTCCTGGCTCAC
AACAACGCGTTGCCGATTGGTTACCTCTCAGGTCCCATGGACACCTCAACAGGTAGAGAG
CGATTAGAGGATTTCAAAGCAGCCTGCGCCAACCTCCAAAATTGGCGAACAGCTCGTTTTT
CTGGGTGGGTACGAACAAAGCGTTGGATTTGAAGGCGCTACGAAATTGCTCGATCAAGGA
GCTAAAACCTCTTTTGGCGCGATTCTATGATGACGATCGGTGTCATTGAAGCCTGCCAT
AAGGCTGGTTTGGTTATCGGCAAGGATGTGACGCTGATTGGTTTGTATACACATCCGCTT
TTTGCCCTGCAACCTCATCCGTTGACAGTGATTGATCAAAATGTAGAACAACCTAGCCCAA
CGAGCAGTGTCTATCCTCACCGAATTAATTGCAGGCACGGTACCTAGCGTGACGAAAAC
ACGATCCCCACTGCCCTTATTCATCGTGAATCAATCATCAACTCCACTTTAAGGAAGAAG
GATGGACTCCCCAATGAG

>RXA02730-downstream

TAACCTCAACCGGTACCGACATTG

>RXA02737-upstream

AGCACGCTGCATCAGTAACGGCGACATGAAATCGAATTAGTTCGATCTTATGTGGCCGTT
ACACATCTTTCATTAAAGAAAGGATCGTGACACTACCATC

>RXA02737

GTGAGCACAAACACGACCCCCCTCCAGCTGGACAAACCCACTGCGCGACCCGCAGGATAAA
CGACTCCCCCGCATCGCTGGCCCTTCCGGCATGGTGATCTTCGGTGTCCTGGCGACTTG
GCTCGAAAGAAGCTGCTCCCCGCCATTTATGATCTAGCAAACCGCGGATTGCTGCCCCCA
GGATTCTCGTTGGTAGGTTACGGCCGCCGCGAATGGTCCAAAGAAGACTTTGAAAAATAC

GTACGCGATGCCGCAAGTGCTGGTGCTCGTACGGAATTCGTGAAAATGTTTGGGAGCGC
 CTCGCCGAGGGTATGGAATTTGTTTCGCGGCAACTTTGATGATGATGCAGCTTTCGACAAC
 CTCGCTGCAACACTCAAGCGCATCGACAAAACCCGCGGCACCGCCGGCAACTGGGCTTAC
 TACCTGTCCATTCCACCAGATTCTTTCACAGCGGTCTGCCACCAGCTGGAGCGTTCGGGC
 ATGGCTGAATCCACCGAAGAAGCATGGCGCCGCGTGATCATCGAGAAGCCTTTCGGCCAC
 AACCTCGAATCCGCACACGAGCTCAACCAGCTGGTCAACGCAGTCTTCCAGAATCTTCT
 GTGTTCCGCATCGACCACTATTTGGGCAAGGAAACAGTTCAAAACATCCTGGCTCTGCGT
 TTTGCTAACCACTGTTTGGGCAAGGAAACAGTTCAAAACATCCTGGCTCTGCGT
 ACCATGGCTGAAGATATTGGCTTGGGTGGACGTGCTGGTTACTACGACGGCATCGGCGCA
 GCGCGCAGCTCATCCAGAACCACCTGATCCAGCTCTTGGCTCTGGTTGCCATGGAAGAA
 CCAATTTCTTTTCGTGCCAGCGCAGCTGCAGGCAGAAAAGATCAAGGTGCTCTCTGCGACA
 AAGCCGTGCTACCCATTGGATAAAACCTCCGCTCGTGGTCAGTACGCTGCCGGTTGGCAG
 GGCTCTGAGTTAGTCAAGGGACTTCGCGAAGAAGATGGCTTCAACCCTGAGTCCACCCT
 GAGACTTTTTCGGCTTGTACCTTAGAGATCACGTCTCGTCGCTGGGCTGGTGTGCCGTTT
 TACCTGCGCACCGGTAAGCGTCTTGGTCGCGCTGTTACTGAGATTGCCGTGGTGTTTAAA
 GACGCACCACACCAAGCCTTTCGACGGCGACATGACTGTATCCCTTGGCCAAAACGCCATC
 GTGATTTCGCGTGCAGCCTGATGAAGGTGTGCTCATCCGCTTCGGTTCCAAGGTTCCAGGT
 TCTGCCATGGAAGTCCGTGACGTCAACATGGACTTCTCCTACTCAGAATCCTTCACTGAA
 GAATCACCTGAAGCATACGAGCGCCTCATTTTGGATGCGCTGTTAGATGAATCCAGCCTC
 TTCCCTACCAACGAGGAAGTGGAACTGAGCTGGAAGATTCTGGATCCAATCTTGAAGCA
 TGGGATGCCGATGGAGAACCAGAGGATTACCCAGCGGGTACGTGGGGTCCAAAGAGCGCT
 GATGAAATGCTTTCCCGCAACGGTCACACCTGGCGCAGGCCA

>RXA02737-downstream
 TAATTTAGGGGCAAAAAATGATC

>RXA02738-upstream
 TTGTTGTTAATCGGTACAAAGGGTCTTAAGCACATCCCTTACTTGCTGCTCTCCTTGAG
 CACAGTTCAAGAACAATTCTTTAAGGAAAATTTAGTTTC

>RXA02738
 ATGTCTCACATTGATGATCTTGCACAGCTCGGCACTTCCACTTGGCTCGACGACCTCTCC
 CGCGAGCGCATTACTTCCGGCAATCTCAGCCAGGTTATTGAGGAAAAGTCTGTAGTCGGT
 GTCACCACCAACCCAGCTATTTTCGAGCAGCAATGTCCAAGGGCGATTCTTACGACGCT
 CAGATCECAGAGCTCAAGGCCGCTGGCGCATCTGTTGACCAGGCTGTTTACGCCATGAGC
 ATCGACGACGTTTCGAATGCTTGTGATCTGTTTACCGGCATCTTCGAGTCTTCCAACGGC
 TACGACGGCCGCGTGTCCATCGAGGTTGACCCACGTATCTCTGCTGACCGCGACGCAACC
 CTGGCTCAGGCCAAGGAGCTGTGGGCAAAGGTTGATCGTCCAAACGTCATGATCAAGATC
 CCTGCAACCCAGGTTCTTTGCCAGCAATCACCGACGCTTTGGCTGAGGGCATCAGCGTT
 AACGTACCTTGATCTTCTCCGTTGCTCGCTACCGCGAGGTCATCGCTGCGTTCATCGAG
 GGCATCAAGCAGGCTGCTGCAAACGGCCACGACGTCTCCAAGATCCACTCTGTGGCTTCC
 TTCTTCGTCTCCCGCGTCGACGTTGAGATCGACAAGCGCCTCGAGGCAATCGGATCCGAT
 GAGGCTTTGGCTCTGCGCGGCAAGGCAGGCTTGCCAACGCTCAGCGCGCTTACGCTGTG
 TACAAGGAGCTTTTCGACGCCGCGAGCTGCCTGAAGGTGCCAACACTCAGCGCCCACTG
 TGGGCATCCACCGCGTGAAGAACCCTGCGTACGCTGCAACTCTTTACGTTTCCGAGCTG
 GCTGGTCCAAACACCGTCAACACCATGCCAGAAGGCACCATCGACGCGGTTCTGGAGCAG
 GGCAACCTGCACGGTGACACCCTGTCCAACCTCCGCGGAGAGCTGACGCTGTGTTCTCC
 CAGCTTGAGGCTCTGGGCGTTGACTTGGCAGATGTCTTCCAGGTCCTGGAGACCGAGGGT
 GTGGACAAGTTTCGTTGCTTCTTGGAGCGAACTGCTTGAGTCCATGGAAGCTCGCCTGAAG

>RXA02738-downstream
 TAGAATCAGCACGCTGCATCAGT

>RXA02739-upstream
 CCTTTGCCAAATTTGAACCAATTAACCTAAGTCGTAGATCTGATCATCGGATCTAACGAA
 AACGAACCAAACTTTGGTCCCGGTTTAACCCAGGAAGGA

>RXA02739
 TTGACCACCTTGACGCTGTCACCTGAACTTCAGGCGCTCACTGTACGCAATTACCCCTCT
 GATTGGTCCGATGTGGACACCAAGGCTGTAGACACTGTTTCGTGTCTCGCTGCAGACGCT

GTAGAAAACGTGTGGCTCCGGCCACCCAGGCACCGCAATGAGCCTGGCTCCCCCTTGCATAC
 ACCTTGTACCAGCGGGTTATGAACGTAGATCCACAGGACACCAACTGGGCAGGCCGTGAC
 CGTTTCGTTCTTTCTTGTGGCCACTCCTCTTTGACCCAGTACATCCAGCTTTACTTGGGT
 GGATTCCGGCCTTGAGATGGATGACCTGAAGGCTCTGCGCACCTGGGATTCCTTGACCCCA
 GGACACCCTGAGTACCGCCACACCAAGGGCGTTGAGATCACCCTGGCCCTCTTGGCCAG
 GGTCTTGCATCTGCAGTTGGTATGGCCATGGCTGCTCGTCGTGAGCGTGGCCCTATTCGAC
 CCAACCGCTGCTGAGGGCGAATCCCCATTGACACCACACATCTACGTCATTGCTTCTGAT
 GGTGACCTGCAGGAAGGTGTCACCTTGAGGCATCCTCCATCGCTGGCAGCCAGCAGCTG
 GGCAACCTCATCGTGTCTTCTGGGATGACAACCGCATCTCCATCGAAGACAACACTGAGATC
 GCTTTCAACGAGGACGTTGTTGCTCGTTACAAGGCTTACGGCTGGCAGACCATTGAGGTT
 GAGGCTGGCGAGGACGTTGCAGCAATCGAAGCTGCAGTGGCTGAGGCTAAGAAGGACACC
 AAGCGACCTACCTTCATCCGCGTTTCGACCATCATCGGCTTCCCAGCTCCAACATATGATG
 AACACCGGTGCTGTGCACGGTGTGCTCTTGGCGCAGCTGAGGTTGCAGCAACCAAGACT
 GAGCTTGGATTGATCCTGAGGCTCACTTCGCGATCGACGATGAGGTTATCGCTCACACC
 CGCTCCCTCGCAGAGCGCGCTGCACAGAAGAAGGCTGCATGGCAGGTCAAGTTCGATGAG
 TGGGCAGCTGCCAACCCCTGAGAACAAGGCTCTGTTGATCGCCTGAACTCCCGTGAGCTT
 CCAGCGGGCTACGCTGACGAGCTCCCAACATGGGATGCAGATGAGAAGGGCGTCGCAACT
 CGTAAGGCTTCCGAGGCTGCACCTTCAGGCACTGGGCAAGACCCTTCCTGAGCTGTGGGGC
 GGTTCGCGTGACCTCGCAGGTTCCAACAACACCGTGATCAAGGGCTCCCCCTTCCTTCGGC
 CCTGAGTCCATCTCCACCGAGACCTGGTCTGCTGAGCCTTACGGCCGTAACCTGCACTTC
 GGTATCCGTGAGCACGCTATGGGATCCATCCTCAACGGCATTTCCTCCACGGTGGCACC
 CGCCCATACGGCGGAACCTTCCTCATCTTCTCCGACTACATGCGTCTGCACTTCGTCTT
 GCAGCTCTCATGGAGACCGACGCTTACTACGTCTGGACCCACGACTCCATCGGTCTGGGC
 GAAGATGGCCCAACCCACCGACCTGTTGAAACCTTGGCTGCACTGCGCGCCATCCCAGGT
 CTGTCCGTCTGCGTCTGCGATGCGAACGAGACCGCCAGGCTTGGGCTGCAGCACTT
 GAGTACAAGGAAGGCCCTAAGGGTCTTGCACTGACCCGCCAGAAGCTTCCTGTTTGGAA
 GGCACCAAGGAGAAGGCTGCTGAAGGCGTTCGCCGCGGTGGCTACGTCTGTTGAGGGT
 TCCAAGGAAACCCAGATGTGATCCTCATGGGCTCCGGCTCCGAGGTTGAGCTTGGAGTT
 AACGCTGCGAAGGCTCTGGAAGCTGAGGGCGTTGCAGCTCGCGTTGTTTCCGTTTCCTTGC
 ATGGATTGGTTCCAGGAGCAGGACGAGTACATCGAGTCCGTTCTGCCTGCAGCTGTG
 ACCGCTCGTGTGTCTGTTGAAGCTGGCATCGCAATGCCTTGGTACCGCTTCTTGGGCACC
 CAGGGCCGTGCTGTCTCCCTTGAGCACTTCGGTGTCTTCTGCGGATTACCAGACCCGTGTT
 GAGAAGTTCGGCATCACACCGATGCAGTCGTGGCAGCGGCCAAGGACTCCATTAACGGT

>RXA02739-downstream
 TAATTGCCCTGCTGTTTTTAGCT

>RXA02740-upstream
 AACGCAAGGTGCACACTCACCGCAGGGATATTTAAATAATAAGGACTCACAACTTAAATA
 TATGAGTGATTTGAAAATGCAACGTTCTGGAGGAGAACCC

>RXA02740
 TTGGACACGATCAAGGCCTATATTGCGCTAACGAAGCCCAGGGTTATTGAACTCCTCCTT
 GTCGCCACAATCCCCACAATGCTTCAGGCTGAACGCGGTGAGAACAACATTGTGCTCATC
 TTGCTGACTGTGTTCCGGTGGCTGGATGGGTGCGGCCGCCGCCAACACCTTCAACATGGTG
 GCAGACTCCGATATTGATCAGCGCATGGGACGCACTAGGGCTCGCCCTTTGGTGCGCCAC
 ACCGTGAGTAATCGCGACGCCTCCATTTTTTTCGTTGGGTCTGACAGTGGCCAGCTTCTTG
 TGGCTGTGGCTGCTGTGCGATTGATGCTCGCCGGCATCTTCGTGTTGATCACGATTTTC
 TTCTACATTTTTTGTCTACACCAAGTGGCTGAAGCGCCGCACGCACATGAATATCGTGTGG
 GGCGGAGCCGCAGGTTGTATGCCAGTGCTCGTGGCTGGGCAGTGATCGTTGATCAGTTT
 GAGCCAGGCGTTCCACAGCAGTGGTGGCAGGCAATTGTCTGTTTTCATGGTGATTTTCTTG
 TGGACCCACCTCACACCTGGGCTCTGGCCATGAAGTACCGCGAAGACTACAAGGCGGCT
 GGCCTCCCAATGCTTCTGTGCTGCGCACCCAGTCCAGGTACCGCACAAATCGTGTGG
 TACTCCGTGGCAACTGTGCTGACCACCTTCTTGCTCATCCCAGCAACTGGTTGGATCTAC
 GCAGCGATCGCCGTCAATTTCCGGCGTCACCTTCTTGTTTTCATGGCCATCAAGCTGCACCTC
 GGCATCAAAAACGGTGGCAAGGTCAAGCCTCTGAAGCTGTTTATTTTGTCCAACAACCTAC
 TTGGCAGTCTCTTCGTGGCATTTGCTCGTACGCGGTCTCGGCCTTGAGACCATCGGC
 GAGATGCTCGGCTGGACCACCACTTCTTC

>RXA02740-downstream
 TAAAAGCTTGCTTTTCGACGAAA

>RXA02741-upstream

ACTGGTCACCTGGTTTGGTCTGCACTCTGACTCCCCTCAAAGGGCACAATTTGGTCAAT
TTCCCAACCTTGTCTTTCAGTCATGGTTAGTGTGGGAACC

>RXA02741

ATGAAGGCAATCTTAGTTTCCCGCACCGGCGGACCAGAGGTGTTGGAGTTCACCGACACT
GACGCCCCAAAGCCCACTGATGATCAGGTTTTAGTTGAAGTTGATATGGCTGGCGTCAAC
TTTATTGATACTTACTATCGCCAGGGTGAATATCACGCTCGCCTGCCGTTTATCCCAGGT
TTTGAAGGCACTGGTCGGGTGTTGGAGGATCCGCAGGGGTGATTGCGGCGGGTACCAAG
GTGGCGTGGTGTGATGCCATGGGTTCGTATGCTCAGCAGGTGTGTGTGCCGCGGGATCGC
TTGGTGGCGGTTCCCGAGGGCGTGAGTTCGGAAGTGGCTGCGTCGATGTTGATGCAGGGA
ATCACTGCGCATTATCTAACCAATGGTGTGTATGAGCTTGAAGAGGGCGATTCTTGCCTC
ATCACTGCTGGCGCGGGTGGTGTGGATTGTTGGCTACGCAGATGGCGGCGGCCAAGGGA
GTGCGCGTGTACAGCGTGGTGTCCACGGATGAAAAGCTGAGCTTGCTTTGGATGCCGGT
GCTTATGAGGTGTTTCGTATTCCGATAATTTGGCGGAGCAGGTTCGTGCGCACAAACGGG
GGTCGCGGAGTTGATGTGGTGTATGACGGTGTGCGCCAGTCCACGTTCAATGAGTCCTTA
GAGGCTGTTTCGTCCGCGCGGCACTGTGTGTTTGGTTCGCGCGTCCGCTGTGGAG
CCTTTTGATCCGCAGCTGTTGAACACTCACGGTTCGATCTTCTTGACCCGCCAAGCATT
GGCGCGTGGACGTCTGAGGAGGGCGAATTTGCCAAGCGTGCACAGGCGGTACGCAGGCC
ATCGTCGAAGGCACCTTGCGGGTTCGCGTTACTGGCACATATTCGCTTGCCGACGCCTAC
ATCGCCACCGCGACCTTCAGGCGCGTAGCACGAGCGTTCTTTGGTCTTGAAATCCCG
AAGGAC

>RXA02741-downstream

TAAACACGCATAAAAAGATCCTG

>RXA02743-upstream

ATATCCTTAAAGTTCCCGGGAGTTTTCAGTGGCAAATACCACCACTTCCATACCGGGAAC
AATTGTATAAACTAGCCATGACCTGCTAGGATCAGCGAC

>RXA02743

GTGTCTACTTCAGATGCTCCCTCAAATAATCCAGTTGAGTTGAAGCCCATTACTTTCTGG
GCACCGACCATCAAAGTGCAGCGCATTCTCGCGCTCCTACTGTTGATTTCCAGGGAGGC
ATCACCGTTACGGGCTCTATCGTCCGTGTACAGGCTCCGGCCTCGGTTGTGATACCTGG
CCACTATGCCACGAAGGTTCACTAGTCCCAGTGCAGGCGCAGCACCATGGATCCACCAG
GCAGTGAATTTGGTAACCGCATGCTCACTTTTCGTGCTTGCTGCCGCAGCGCTTGCGTTG
TTCATTGCAGTTCTTGGCGCAAACGCCGCCGAGATCCTGGTCCATTCTTCATCCAG
GGTTTGGGCATCATCTTGCAAGGTGTATCGGTGGCATCACCGTGCTGGTTGATTTGCAC
TGGTACGCCGTTGCTTTGCACTTCCTGCCATCCATGATCCTTGTTTTCATGGCCGCGATT
TTGTACACCCGCATCGGCGAGCCCGATGACGGCGAGATTACCACCACATTCCCCACGTGG
ATCCGCAATGTAGCTGTCAATTGGTGCAGTAGCGCTCTCCGTAGTACTGATCACCGGCACC
ATGACACCGGCGCTGGCGTTCACTCTGGCGATGCATCAATCACCATGGATGATCGCCTC
GATGTCAGCATCGACTTGATGGCCACATCCACGGCTACAGCATGTACATCTACCTCTTC
TTCACCCTCATCGTGGTGCCTGGTCTGTACAAGGCAAAAACCACCAAGCACAAACAAGCAG
CTTGGCCTCATGCTGATTCTGTTCACTTCTGATTTCAGGCAGGTATCGGCATCTTGCAGTAC
CGCATGGGTGTGCCACGCTGGAGCATCCCATTCCACATCGCAATGTCTTCTGTCTGTTGTT
GCCTTCACTTCCCTTCTGTGGGCGCAGGGTTCGTATACGCGTCGGCGGTAAAGCCACCGTT
ACTGGTTCTGTTGATGGCGATATTAAGAACGAGATCATTACGAACCCCTTTGAGAAGAA
TCAAAGCAGCCTGTTAAA

>RXA02743-downstream

TAACACGCAACTGTATCGGTAAA

>RXA02797-upstream

ACAGTCTCATGAAGCCATAATAACCACCTTCTACAAAGATCGACGTAGAATGGAATAACC
CCTTATGAAAACGTTTGCATAACTCCGCTAAGGATGTTCC

>RXA02797

ATGAATAATCGAATTGTCTAGTCGGCTCCATCAACGCTGATCTTAATGTTCTCGTTGAC
CGCCACCCAGCACCTGGCGAAACACTGTTGGGCAGTGGTGGACACATCACTGCAGGAGGC

AAAGGCGCCAACCAGGCAGTAGCTGCCGCTCTTCAAGGTGCAGACGTCGCCTTTGTGCGGC
GCTGTGGGCAAGGATCCTTACGCTGCCCCAGCCTTAGAATTCCTTCGTTTCGTCAGGCGTC
GACCTTACGGCAGTATCCGAAGTAGATGACACCACCGGGCTTGAGTTATCACCGTTGCC
AAAGACGGCGAGAACAATATCGTTGTCATCCCCGGCGGAATTCCTTGGTCAATTGTGAT
TATGTAAGCAGCCAATCCGCTCTTTTAGCTGAAGCTGGAATCCTGTTGCTGCAAGGTGAG
ATCCCTGCGGATGGCTTCAAAGAGGCCATTACACACACCATGGGTGCGTTCGTGGTGAAT
CTAGCGCCCGTCATCGAGGTAGAGAAGTCCGCGTTACTTGAGGCTGATCCGATCATCGCC
AATGAGCACGAGGCCGCGCTGATTCTGGATCAATTCGGGGCAGGCATCGATTCCATGGAT
CCCCACGAGCTCGCGCAAGCTCTCCTCGACGCCGGTTTCGCCTCTGTTGTTTAAACGCTT
GGATCCGCAGGCGCGTTGGTCGCCGATGCCACCGGTATCACGGACATCGCCACACCAACG
GTGCAGGCAGTTGACACCACGGGAGCCGGTGACGCTTTTGCCGGAGCCTTCTGCGCACGA
CTAATTAAAGGCGATTTCGCTTATCGACGCCGCCACCCACGCAGCACGCGTCGGCGCTTAC
TCGGTGCAAACCGCCGGAGCGCAAGCGTCCTATCCGGACGCGAGCGTTTCACTTCCCTCT
GTT

>RXA02797-downstream
TAAAAAACTATTTAAGAAGAGG

>RXA02803
TCTGGAGAGATGCTCGCGGCAGCACTTTCAGCAGGCATGGCCAGCCAGGGTGTGATGTC
ATTTCGTGTTGGTGTTCATCCCAACCCAGCTGTTGCATTTCCTCACCGATGATTATGGCGCT
GACATGGGCGTGATGATTCTGCATCCCAACAACCAATGCCGACAACGGAATCAAGTTC
TTTTCTGCAGGTGGACACAAGCTTCCAGACCATGTGGAAGACGAGATTGAGCGTGTTATG
GACAGCTTGCCAGCAGAAGGCCCAACAGGGCATGGAGTTGGCCGTGTCATCGAAGAAGCA
ACCGATGCACAGGACCGCTACCTAGAGCACCTGAAGGAAGCTGTTCTTACGTCACTTGAA
GGCATCAAGATTGTTGTGGATGCAGCCAATGGTGCGGCA

>RXA02807-upstream
AAAGCGTGGCAACAACCTGGAATTTAAGAGCACAATTGAAGTCGCACCAAGTTAGGCAACA
CAATAGCCATAACGTTGAGGAGTTCAG

>RXA02807
ATGGCACACAGCTACGCAGAACAAATTAATTGACACTTTGGAAGCTCAAGGTGTGAAGCGA
ATTTATGGTTTGGTGGGTGACAGCCTTAATCCGATCGTGGATGCTGTCCGCCAATCAGAT
ATTGAGTGGGTGCACGTTTCGAAATGAGGAAGCGGCGGCGTTTGCAGCCGGTGCGGAATCG
TTGATCACTGGGGAGCTGGCAGTATGTGCTGCTTCTTGTGGTCTGGAAACACACACCTG
ATTTCAGGGTCTTTATGATTTCGCATCGAAATGGTGCGAAGGTGTTGGCCATCGCTAGCCAT
ATTCCGAGTGCCAGATTGTTTCGACGTTCTTCCAGGAAACGCATCCGGAGATTTTGTTT
AAGGAATGCTCTGGTTACTGCGAGATGGTGAATGGTGGTGAGCAGGGTGAACGCATTTTG
CATCACGCGATTTCAGTCCACCATGGCGGGTAAAGGTGTGTGGTG

>RXA02821-upstream
AGCCCGAACACACGGGCACAGAAAGGGAACGACACCTCATGAACGAGATCATCTTGGCA
CAGGACGCAACCGAGTCCACCATCACCGGACCTTGGCGCT

>RXA02821
GTGGGCTACGGCATCGCAACCATCGGACCTGGCCTCGGCATCGGCATCTTGGTTGGTAAG
GCTCTCGAGGGTATGGCACGTCAGCCTGAGATGGCTGGACAGCTCCGTACCACCATGTTT
CTGGGCATCGCCTTCGTTGAGGCCCTGGCACTGATCGGCCTTGTGCTGGCTTCCTGTTT

>RXA02821-downstream
TAATCAGCTAACTTAACCGAAAG

>RXA02829-upstream
TTTTTCGTTTAACTCATATTTAAACACGTTCTTTTAAATTGGTTTTATAAATTGATAAA
CTGAATTCGTCAGTTAAAGTGTATCGAAAGGAGACTGGAC

>RXA02829
ATGCAAAAAAATATTCTAAAAAGTGGCATCGAAATTTCTGAACTTGGGTAGGTTGCATG
AGTTTAGGCACAGATTATAAAAAAGCGCAACCAATTATTGAAAGTGCAATTGATAATGGT
ATTACGTATTTTGATACTGCAGATATTTACGATCAAGGAGTTAATGAAGAAATTGTTGGT

AAAGCCTTAAAAAATATCAAAATCGTGATGACATCGTTATCGGAACTAAAGTTGGAAAT
CGATTAAC TGACGATGGACATATGACGTGGGGATCC

>RXA02852

GTTGCAGTGTCTGACTTCTCCACTGATCTGCCAAACCAGATCCGTGAATGGGTCCCAGGC
GACTACACCGTTCTCGGTGCAGATGGCTTCGGTTTCTCTGATACCCGCCAGCTGCTCGT
CGCTTCTTCAACATCGACGCTGAGTCCATTGTTGTTGCAGTGCTGAACTCCCTGGCACGC
GAAGGCAAGATCGACGCTCTCCGTTGCTGCTCAGGCTGCTGAGAAGTTCAAGTTGGATGAT
CCTACGAGTGTTTCCGTAGATCCAAACGCTCCTGAGGAA

>RXA02852-downstream

TAAATCACCTCAAGGGACAGATA

>RXA02853-upstream

AATTCAGCAGTAATCATTTAGACTTGGAACCGCTTACCAGTGGTTTCAACAATGCATTCA
CCCAGCTCACACGTGTGGAGGTGCCTTA

>RXA02853

ATGGCAAAGAGGATCGTAATTATCGGCGGTGGACCTGCAGGCTATGAAGCCGCACTCGCA
GGCGCTAAATACGGTGCAGAAGTTACCGTTATTGAAGATGTCGGAGTTGGCGGATCCGCA
GTCACCATGGACTGTGTACCTTCAAAGTCCTTCATCGCTGGTACCGGTATCAAAACCGAC
CTCCGACGTGCTGATGACATGGGACTTAACCGTGGGCTTGGAAGACACACCTAGAAATC
GATGCACTGAACATCCGTGTGAAGGACCTTGCGAAAGCACAGTCCGAAGATATCTTGGGC
CAGCTGCAGCGCTCAGATGTCCGCATGATTAACGGTGTGGGCCGCTTTGATGATTACAAC
ACCAAGCAAACACCCACTACATTAAAGTCACCCACAGCGATGGCTCCGAAGAAACCGTT
GAGTGCAGTCTGGTGTGGTTGCAACTGGTGCAACCCCCCGCATTTCTAAAGGTGCAGAG
CCAGACGGCGAGCGCATCTTGACCTGGCGTCAGGTCTACGACATTGAAGAATCCCCACC
CACCTTATCGTGGTTGGTTCCGGTGTGACCGGTGCGGAATTTGTCTCTGCGTTTGTGAA
CTCGGCGTCAAAGTCAACATGGTGGCATCCCGTGACCGCATTTTGCTCACGATGACGCA
GATGCCGCAGACGTGCTGGAAACCGTTCTGGCTGAGCGCGGAGTATCCCTGGAAAAGCAT
GCCCCGCTGGAGTCTGTCAACCCGCACCGAAGACGGTGGCGTGTGTGTTTCGCACTGCTGAC
GGACGAGAAATCTACGGTTCTCACGCGTTGATGACTGTTGGTTCCATTCCAAACACGGCA
GATCTTGGCCTGGAGAACATCGGTGTTGAGCTGGCACCATCCGGCCATATCAAGGTTGAC
CGNGTCTCCCGCACCAACATCCCCGGTGTGTACGCAGCAGGTGACTGTACTGACCTATTC
CCACTGGCGTCCGTTGCAGCGATGCAGGGCCGTATCGCCATGTATCACGCACTCGGTGAA
GGCGTGAGCCCCATCCGTTTGAAGACTGTTGCCACCGCAGTGTTTACCCGCCAGAGATC
GCAGCAGTAGGTATCACCATGCACAAGTTGATTCCGGCGAAGTGCTGCTCGCGTGATT
GTGCTTCTTTTGGCTACTAACCACGCGCCAAGATGCGTTCCCTGCGCCACGGTTTTGTG
AAGCTGTTCTGCGCGCGTAACCTCTGGCCTGATCATCGGTGGTGTGCTGGTGGCACCGACC
GCGTCTGAGCTGATCCTACCGATCGCTGTGGCAGTGACCAACCGTCTGACAGTTGCTGAT
CTGGCTGATACCTTCGCGGTGTACCCATCATTGTGAGGTTTCGATTACTGAAGCAGCACGT
CAGCTGGTTCAACATGATGATCTAGGC

>RXA02853-downstream

TAATTTTTCTGAGTCTTAGATTT

>RXA02854-upstream

AATACCTTTCTGTTTTGTCCGCAGGCGTATCAGGAAAACCTGCAGCGCGGTAGAGTCGAG
TCTAATAGTGATCCACGAAAAACAAGGATCGGGGTGTTT

>RXA02854

ATGGACGAGTCTCGTCAGCTTAGTTTCGGCACAGCAGGGTTGCGTGCAACAGTTGGCCCCG
GCGCGCCATCAGATGAATGTTTTGCAGGTAACCAGAACTACAGCAGGTGTTGCTAGTTGG
TTGGCAGAACGTGCGGCACTAAATCCAGTGCCGCATTTGGTTTCTGAGGATGAAACAGGA
ATCGGCAGGGCGTTGTATCCCCAAGATGGTCCGTTGCGGGTCTGTTGTTGGGTATGACGCT
CGCTATGGTTTCGCATACTTTTGCTGCAACCACTGCGGAGGTGTTTCGCGGGTGTGGTTTT
GAGGTGACGTTGCTCCCCACGCCTAGCCCTACGCCGTTGATTCCGTGGTTGGTGAACAAG
CATGGGTGGATGCGGGCGTTTACAGATCACGGCTTCGCATAATGGTGCGGCGGACAATGGC
TACAAGGTGTTTTTGTCTAATGGTCCGACGCTTTATTCTGAACTGGAGCCTGAGCTTGAG
GCGCATATCAATGCTGTGGAAGATCCGATTCCGGTTTCTCGGGTGACGGTGCGCCCCACT

GCTGATCAGCTGCGTCGATATGTTGATGAGATGGTGTGCTTGGTGA CTCTGATCAGGCT
 GATTTGTTGCGGGTGAATCTGAGCGGGGCAATCTTCGCGTGGTGTATACCGCTCTGCAT
 GGTGTGGGTGGCCGCGGATGGCCAATGCTTTCCAATTTGCTGGTTTTCCCATACTCAT
 GCGTGAAGGCTCAGCAGTATCCTGATCCACCTTCCCACTGTGGCGTTCCCAATCCG
 GAAGAGCCTTCTGCGATTGAGTTGTTGTTGGAACGCGCAAAGGAAAAAGAACGCTGACATT
 TTGTTTGCGCTTGATCCTGATGCCGATCGTTGTGCTGTGGGTATTCGTACCGCTGATGGC
 GGCCACCGAATGCTCTCTGGCGATGAGGTGGGCACACTTTTGGCTACTCGTTTGGTTCCG
 GAGTATTCGGTGAAGGCCCCACGTCCCGTGGTTGCCACCACGGTGGTGTCTTCGCAGCTT
 CTGGGTATCATCGCCGAGGATAAAGGGTGGGATTATTCCGAGACACTGACGGGATTCAAA
 AATCTGTGAGGGCTGCCGATGGTCTCGACGGACCGCTTGCTTTCGCTTATGAGGAAGCT
 GTGGGCACCTGCCCCGTTCCAGATGTCGTGCCGATAAGGACGGCATCTCTACAGCGTTG
 TTCATGGCGTCGTGGGCTGCCGAAGTGAAGGCTCAGGGCGCAAGCCTGCAGCAAAAACCTC
 AATGAGTTGTATCGCCGATATGGGTATTTTGCCTCGCAAATTGCTGTGCGCACGAGC
 AGTCCACGCGAGTTAGTTGATCACTGGATTGCGCATCCTCAGCAAGAACTCATTTGGAGTG
 TCTGTACCCCCACATATCTTCTTGA AAAACAGGGCATTGCTTTGCATGGCCAGGTGGGG
 CATGTGCATATCCGTGCTATTGGTTCGAGTCTCTGGAAGTGAAGCGAAAGCCAAGCTCTAT
 TTGGAAGTTGGTCAGGCCAGCTCCCATGATGAAGCAGCTCAGTTGTTGCATCAGCTGGAG
 GATGAAGTCCAAAGCTGGTTGAGC

>RXA02872

GCTCGTGAGGCATGGCGCATTTTCATGTCCCACTGGGATCTCTACGCAGGAACCGCAACT
 GGCTACTGGGTGGAGCAGGAATTTGAGCACGTTTTTCGGCATCAACGCGGAGCGCCTGAAT
 GTTGGCACCCCAAGAACATGCTGACGCCATCTTTGATGAGCTGACCGATATTCTTGCCAAG
 CCAGATTTCCGACCACGCGCACTGGCTGAGCAGTTCAACTTGGAAGTTCTAGCCACCACC
 GACGATCCGCTCGATGACCTGGCAGATCACAAGGCACTGGCAGATGATCCAACCTTCTCC
 CCTCGTGTGCTCCCTACCTTCCGCCCAGACGATACACCAAGATGTACAACGCTGGTTGG
 GCAGAAAAAACCAAGCTTATCGATACCGCAGGTGACGGCAAGGCAGGCTGGGAGGGT
 TACCTTCAGGCAATGCGCAACCGCCGCCAGTACTTCATCAATCACGGTGCAACCTCCGCG
 GACCACGGTCTCCACGACACCGACACCACCCCACTGAGCCACAAAGATGCCCAGAAGATC
 TTGGACAAGGGTCTCGCTGGCACAGCAACCTTGGCTGAAATGCATGCCTTCGAAGCCAAC
 ACCACCTACCGTTTCGCGGAAATGTCCCAAGAAGACGGCCTGGTTCATGACCATCCACCCA
 GGTGTGTACCGC

>RXA02873

TTCGGTGAGAACAAAGATCTCATCTCTGACAGCAGTTTCAACCGCTGGCTGCGTACGGTT
 TCCCTCGGATCGACCCAGGATGCCGATATGGCTGCAGCTTCCAACCTGGCAGCCAATTCT
 AAAATGGCCCCGCCAGAACACCCGCGATATCCTCGACGCGAGTCTCTGATGGTGGCGTCATG
 CTCGGCCGAAACGGTGCCCTAGTGTTGGGACCTGTGGTTGGAAGTCTCCACATTAAATTC
 ATTGCGCCTTTGAACAAGCGTGTGGAAGAGTCATGTACAAAACCTGGACTCTCAGAAGCT
 GCTGCAGCTGAGCAATGTGCTTTGGAGGATCGTCTCCGCGAAGAGATGGCCACGCTTTG
 TATCAATGGAATCCGGGACGCGATGAAAACATGACCTCGTGATCAACACCGGTTTCGATG
 ACATACGAACAAATCGTTGATCTAGTTGTGGAAGTACGCCAGGAAGTATCCGCTCCAC
 GTGAGAATCATTCGGAACGGAAGACCA

>RXA02873-downstream

TAAACATACAGTCCCCGTGATGT

>RXA02887-upstream

TTCGTGCACTTCGGCGTGCCACAATTAGGTACGACCAAGAATGGGACCGGGAAACCGGGA
 CGTATAAACGAAATAAAACATTCCAACAGGAGGTGTGGAA

>RXA02887

ATGGCCGATCAAGCAAAAACCTTGGTGGCAAGCCCTCGGATGACTCTAACTTCGCGATGATC
 CGCGATGGCGTGGCATCTTATTTGAACGACTCAGATCCGGAGGAGACCAACGAGTGGATG
 GATTCACCTCGACGGATTACTCCAGGAGTCTTCTCCAGAACGTGCTCGTTACCTCATGCTT
 CGTTTGCTTGAGCGTGATCTGCAAAGCGCGTATCTTCCCCCAATGACGTCAACCGAC
 TACGTCAACACCATTTCAACCTCTATGGAACCTGAATTCCCAGGCGATGAGGAAATGGAG
 AAGCGTTACCGTCGTTGGATTTCGCTGGAACGCAGCCATCATGGTTACCGCGCTCAGCGA
 CCAGGCATCGGCGTCCGGCGACACATTTCCACTTACGCAGGCGCAGCC

>RXA02897

GATCTCGATGGCTTCCGTCAGGAAGTTTCCCGTGAGCAGGGTGGCATTCCGTCCTACCCCT
 CACCCACACGGTATGAAGGACTTCTGGGAGTTCCCAACTGTGTCCATGGGTCTTGGCCCA
 ATGGATGCCATTTACCAGGCACGTTTCAACCGCTACCTCGAAAACCGTGGCATCAAGGAC
 ACCTCTGACCAGCACGTCTGGGCCTTCCTTGGCGACGGCGAAATGGACGAGCCAGAATCA
 CGTGGTCTCATCCAGCAGGCTGCACTGAACAACCTGGACAACCTGACCTTCGTGGTTAAC
 TGCAACCTGCAGCGTCTCGACGGACCTGTCCGCGGTAACACCAAGATCATCCAGGAACCTC
 GAGTCCTTCTTCCGTGGCGCAGGCTGGTCTGTGATCAAGGTTGTTTGGGGTTCGCGAGTGG
 GATGAACCTTCTGGAGAAGGACCAGGATGGTGCACCTTGTGAGATCATGAACAACACCTCC
 GATGGTGACTACCAGACCTTCAAGGCTAACGACGGCGCATATGTTCTGTGAGCACTTCTTC
 GGACGTGACCCACGCACCGCAAAGCTCGTTGAGAACATGACCGACGAAGAAATCTGGAAG
 CTTCCACGTGGCGGCCACGATTACCGCAAGGTTTACGCAGCCTACAAGCGAGCTCTTGAG
 ACCAAGGATCGCCCCAACCGTTCATCCTTGCTCACACCATTAAGGGCTACGGACTCGGCCAC
 AACTTCGAAGGCCGTAACGCAACCCACCAGATGAAGAAGCTGACGCTTGATGATCTGAAG
 TTGTTCCGCGACAAGCAGGGCATCCCAATCACCGATGAGCAGCTGGAGAAGGATCCTTAC
 CTTCTCCTTACTACCACCCAGGTGAAGACGCTCCTGAAATCAAGTACATGAAGGAACGT
 CGCGCAGCGCTCGGTGGCTACCTGCCAGAGCGTCGTGAGAACTACGATCCCAATTCAGGTT
 CCACCACTGGATAAGCTTCGCTCTGTCCGTAAGGGCTCCGGCAAGCAGCAGATCGCTACC
 ACCATGGCGACTGTTCTGTACCTTCAAGGAACCTGATGCGCGATAAGGGCTTGGCTGATCGC
 CTTGTCCCAATCATTCTGTGATGAGGCACGTACCTTCGGTCTTGACTCTTGGTTCCCAACC
 TTGAAGATCTACAACCCGCACGGTCAGAACTACGTGCCTGTTGACCACGACCTGATGCTC
 TCCTACCGTGAGGCACCTGAAGGACAGATCCTGCACGAAGGCATCAACGAGGCTGGTTCC
 GTGGCATCGTTTCATCGCTGCGGGTACC

>RXA02902-upstream

CATCAACGCCGAGTACAACCTAAGGACAACCTGATAATGACAAATGCTGCAATTGTTCGGATG
 AGGAGACGTGCAACCGTTTCATACAGAAGCGCTGGAAGCT

>RXA02902

TTGGCTTCCGATCTTGGTATTAAGTTTCGTGCGAGTGGTGGATAAAGATCTAGAGACTGCT
 GAGAAATTTGCGACGGGACTTGGAGCTGCTGGCGATTCTTCAGAAAGCAGCGTCAAGGCC
 CACGGCAGCCTGCCGGCTTTGTTCTCCAAAAGAAGATCGATGTTCTACACATCACCACC
 CCCCACGACCAACACATTTGGTTTGGCTCTCGAAGCGCTACACCACGGTGTAATGTCTATC
 CTGGAAAAGCCGTTGGCTAATGAGTTGGACCAAGCGCAGCGTCTCATCGACTACTTGGAT
 GAAAACCCCGATGGTCCAAAGATTGCAGTGTGCTATCAGAACCCTTACAACGTTTCTCTCC
 CAGGAACCTGCGTCTGCTCGATTACAGGTGACCTCGGTGCCATCAATGGTGCATATTCC
 TCTGTGGTGTGGACCCGCACCCACAGGCTACTACACCCAGAAACCTTGGCGTGGCCAGCAA
 GCACACTCCGGTGGTGGCCTGCTGATGAACCAAGCAATTACACCCCTGGATCTGCTGCAG
 TGGTTCTTGGAAAGGCAACAGAAGTCAAGGGCACTGTCTCCACCGATAAGTATGCCGAT
 GTCATCGATGTTGAAGACACCGCACACGCATACATCGGTACAGAGTCCGGAGTCCACACC
 AGTGAAGTGAGT

>RXA02902-downstream

TGAACCATGCTATTGGTGATACA

>RXN00013-upstream

CTGCAGAAAATTCGGGACGCATGATTGCACATATTACCCGCACCGATTGTGATTCTTAGA
 ACGCCACCTTATTCAGCACACTTGGCCGACGGCATGCACA

>RXN00013

ATGGAAGGCATGACTAATCCAGAGCAGACACATCCCGCTGCAAGCCTCGAAGACATGATC
 AAAACCATCACAAAGACCTTCGTGATTGCTCACGATCAGGATTCTGATGAGCATCTTGCG
 CAGGCACTGGTGTACAACGCTGGACGTTTGGCATGGCGCATGCGCGAAAACGGTGTGGAT
 ACGGATTACAAGACTTCTGTGTCTGATGTGGTACGGATGCCGATCGTGCGGCCGAGGCC
 TTCGTGCGAGGCGTTCTGAAGCGTTGCGGCCTGAGGACGGCGTGCTTGGCGAGGAAGGC
 GCGGACCGGGCGTCGAAAAGCGGAAAACCTGGGTCTATCGACCCGGTTGATGGCACCTAC
 AACTTCACCCAGGGCTCAGATTATTGGTGTCTCGGCGCTCGCGCTGGTCGAGGGCGATCCA
 TCCGCGCCATCGCGCGTGCTTTTCGGCGCCGTACACCGCCAGCCATGGGTTATACGTGG
 TTCGGTGGCCCGGAATCCGCACCACGCTCGACGGCAAGGAGCTAGATTTGCTTGTGAC
 GCCCCCTCAATCAAATCTCCCTGGCCACCTACATCCACCCGTCACGCATCGCGGAACCT
 GATATTCAAAGGCGTGGATGAGCGTTGCCACCCACCTGCAACGCTGCGCATGTTCCGGC

GCCGGCTCCATCGATTTGGCCAACATCGCCGACGGCAGCATGGGCGCATGGGTGCAGCAC
AGCGTCGAGATTGGGACTGGCTACCCGGCCGCGCACTCATCGAAGGCGTCGGCGGAGCA
TGCATCAAAGTGACCGCCGGCGGCGTCGAATGGTCCGTTGCAGGAAACGCGGAAGCAGTT
AGTGAGATCTCCGAAACTTTAAGCGCACTAGAC

>RXN00013-downstream
TAACAACACATGAGCAAATATGC

>RXN00014-upstream
CATCAAAGTGACCGCCGGCGGCGTCGAATGGTCCGTTGCAGGAAACGCGGAAGCAGTTAG
TGAGATCTCCGAAACTTTAAGCGCACTAGACTAACAACAC

>RXN00014
ATGAGCAAATATGCAGACGATTTAGCCTTAGCCCTCGAACTTGCCGAACCTTGCCGATTCC
ATCACCTCGACCGCTTCGAAGCCTCTGACCTGGAAGTATCCTCCAAGCCAGACATGACT
CCCGTCAGCGATGCCGACCTGGCGACCGAAGAAGCACTCCGTGAGAAAATCGCCACCGCC
CGCCCCGCGACTCCATCCTCGGTGAAGAATTCGGTGGCGACGTAGAATTCAGCGGCCGC
CAGTGGATCATCGACCCCATCGACGGCACCAAAACTACGTCCGCGGCGTCCCCGTATGG
GCAACCCTGATCGCGCTGCTCGACAACGGCAAACCCGTGCGAGGTGTCATCTCCGCACCC
GCACTGGCTAGGCGTTGGTGGGCATCCGAAGGGGCCGGCGCATGGCGCACCTTCAACGGC
AGCTCCCCACGAACTGTCCGTGTCCAGGTGTCCAAGCTTGACGACGCCTCCCTCTCC
TTCTCCTCCCTCTCCGGCTGGGCGCAACGAGATTTGCGCGATCAGTTTCGTCTCCCTAACT
GATACCACCTGGCGACTCCGCGGCTACGGCGACTTCTTCTCCTACTGCCTCGTCGCCGAA
GGTGGCGTCGATATCGCCGCTGAACCAGAAGTCAGCCTCTGGGATCTTGCTCCCCGTGCC
ATCCTGGTCACCGAAGCCGGAGGAAAGTTCACCTACTGGCTGGCGTCGATGGACCACAC
GGTGGCGATGCAGTAGCCACCAACGGCATCCTGCACGATGAGACGCTGGATCGTTAAAA

>RXN00014-downstream
TAGACTCCCGGGTTTTGCTTGGT

>RXN00043-upstream
AACAGCAGGCCTCAAGTCCGAAGATAATTAACCTAAATCCGTAGACATAAGACATCATAC
GTCCTATGCTTGCTGGAAGGAAGCAAATAACCTCAGAAAG

>RXN00043
ATGGCAGAAGTGGTGCATTATCAAGAAAATGCAGGTCAAGCAGTTAAAAAATTGAAGGA
AGAATTGTTACCCCCACGGGTGATTGATGGCTTTCTCCAACCTCGAAAACGGCATCATC
ACGGAACCTCTCTGGAGAACCAGCACCTAAAAACGCAGGATTCCACCCCGAACTCCCCACG
ATTGTTCCAGTTTTATTGATCTTCATAATCACGGTGGAAACGGTGGCGCGTTTTCTTACG
GGAACGCAGGACCAGGCGAGGAATGCCGCGCAGTATCACCGCGAATGTCACGACCGGTG
ATGTTGGCAAGCATGGTTTTGGCGCGCGGCTGACGCACTGGCAGCGCAGGTGGAAAACCTT
ATTCCCTTGTTGAAGAGGGCCTGCTGTGCGGCATTACCTCGAGGGTCCCTTTCATCAAC
GCATCCCGTTGTTGGTGCTCAAAACCCGGATTTTTATTTTTCCCGGCAACCAACAGATCTT
GCCAGGTGATCCATGCGGGAAAAGGTTGGATCAAATCGATCACAGTAGCGCCGGAACCT
GACAATCTTACTGAGCTTCTCGATCTCTGCGCAGCGCACCATCATTTGCTTCCTTCGGG
CACACTGATGCAGATTTTGATACCACTACCAGCGCAATTGCCTTGGCTAAAGAGAAAAAT
GTGACGGTCACGGCTACGCATTTGTTCAATGCGATGCCTCCGCTGCATCATAGGGATCCC
GGCAGCGTGGGCGCTTTGCTTGCTGCGGCACGTGCCGGGGACGCATATGTTGAGTTGATC
GCCGACGGCGTGATTTGGCCGATGGAACGGTGCATCTAGCTCGTTCCAACAACGCCTTT
TTCATCACGGACGCCATGGAAGCCCGCGGAATGCCAGACGGTGAGTACATTTTGGGCGTT
TTGAACGTACCGTCACCGATGGCGTCCCGCTCTGCGCATGGCGGGCGCCATCGCCGGG
GGTACCAGCACATAGCGAGTCAGTTCTGTGCACACGTGCGCAGGGGTATGACGCTTATC
GACGCGACCTCCACACCTCAACCGTCCCGCCAAAATTCTCGGACTTAGCGATCACGAA
ATCGTTAAATCCAACCTGTAAATTTTGTGGTCTTTGACTCAAACGGCCAGTTACAACAG
GTCCATTTAGACCATCAAGTAAT

>RXN00043-downstream
TAAATACGAGCAAACTTTTCCTG

>RXN00148-upstream
CTTTGAGGGCAGCGCGCATGCGCCCGATGGTTATTTGAACATGACAATTGATGCCGCGGC

GACGCTGGCTGACCTGCTAGATGCTTTGGGAGCTTAAATC

>RXN00148

ATGACGTCGATCCCTAATTTTTTTCAGACATCCCATTTGACTGCTGAGACACGTGCATCGGAG
 TCACACAACGTTGACGCCGGCAAGGTGTGGAACACTCCCGAAGGCATTGATGTCAAGCGC
 GTATTACGCGAGGCTGACCGCGACGAGGCGCAAGCGGCGGGACATCCGGTGGATTCTTTG
 CCAGGTCAAAGCCATTTATGCGCGGGCCGTACCCAATATGTACACCAATCAGCCGTGG
 ACGATTGCGCCAGTACGCAGGCTTTTCAACCGCCGCGGAATCCAATGCGTTTATCGGAGG
 AACCTTGCTGCGGGTCAAAAAGGTTTGTGCGTTGCGTTTCGATCTAGCGACCCACCGCGGT
 TATGACTCGGATAATGAGCGCGTGGTTCGGCGATGTGGGTATGGCCGGCGTGGCGATTGAT
 TCGATTTTGGATATGCGTCAGCTGTTTGTATGGCATTGATTTGTCCAGCGTGTGCGGTGTCG
 ATGACCATGAATGGCGCTGTGCTGCCGATTCTTGCGTTCTATATCGTGGCGGCTGAGGAA
 CAAGGTGTGGGTCCGGAGCAGCTTGCAGGCGACGATCCAGAATGACATCTTGAAAGAATTT
 ATGGTGCACAACACCTATATTTATCCGCCGAAGCCGTGATGCGCATCATTTCCAACATC
 TTTGAGTACACCTCCTTGAAGATGCCACGTTTTAACTCCATTTGATTTCTGGCTATCAC
 ATCCAGGAAGCGGGAGCGACTGCCGATTTGGAGCTGGCCTACACTCTGGCGGATGGTATT
 GAATACATCCGTGCAGGTAAAGAGGTAGGCCTTGACGTGGATAAGTTTCGCGCCTCGTCTG
 TCCTTCTTCTGGGGTATTTCTATGTACACCTTCATGGAGATCGCAAAGCTGCGTGCAGGA
 CGACTGCTGTGGAGCGAGTTGGTGGCAAATTCGATCCGAAAAACGCCAAGTCCCAGTCG
 CTGCGCACGCACTCGCAGACCTCTGGTTGGTTCGTTGACCGCGCAGGATGTGTACAACAAC
 GTCGCCCCGACCGCGATTGAGGCGATGGCTGCAACCCAGGGCCACACCCAGTCGCTGCAC
 ACCAATGCACTTGATGAGGCGTTGGCGCTGCCCACCGATTTCTCTGCTCGTATCGCCCCGA
 AACACCCAGCTGTTGCTGCAGCAGGAATCTGGCACGGTGGTCCAGTTGATCCATGGGCG
 GGCTCCTATTACGTGGAGTGGTTGACCAATGAGCTGGCTAACCGCGCGCGCAAGCACATC
 GATGAGGTGGAGGAAGCCGGCGGAATGGCGCAGGCCACCGCGCAGGGAATTCCTAAGCTG
 CGCATTGAGGAATCAGCGGCACGCACCCAGGCTCGCATTGATTCCGGCCGCCAGGCGCTG
 ATCGGCGTGAATCGCTACGTGGCGGAAGAAGATGAGGAAATTGAAGTCCTCAAGGTTGAC
 AACACCAAGGTTTCGCGCAGAACAGTTGGCTAAACTCGCGCAACTGAAAGCAGAGCGCAAC
 GATGCGGAAGTCAAGGCTGCGCTGGATGCGTTGACAGCTGCTGCCCCGCAACGAGCATAAA
 GAGCCAGGGGATTTGGATCAGAACCTGCTCAAACCTTGCCGTCGATGCTGCGCGCGCAAAA
 GCTACCATTTGGAGAGATCTCCGATGCTTTGGAAGTTGTCTTTGGCCGCCACGAAGCAGAA
 ATCAGGACGCTGTCTGGCGTGTACAAGGATGAGGTTGGAAAGGAAGGCACAGTGAGCAAC
 GTCGAACGCGCGATCGCCCTGGCTGACGCCTTTGAGGCTGAGGAAGGCCGCCGCCACGT
 ATCTTTATTGCCAAAGATGGGCCAGGATGGACATGACCGTGGACAGAAGGTTGTGCGCTCT
 GCCTATGCTGACCTGGGCATGGACGTGGATGTTGGACCGCTGTTTCAAACCTCCAGCCGAA
 GCTGCCCCGCGCCCGTGGACGCCGATGTTACGTGGTGGGTATGTCTTCGCTGGCAGCA
 GGCCACCTCACCTTGCTGCCCGAGCTGAAGAAAGAACTTGCAGCTCTTGCCCGCGATGAC
 ATTCTGGTACCGTGGGCGGCGTCATTCCGCCGGGCGATTTCCAGGATCTCTACGATATG
 GGTGCCGCCGCGATTTACCCTTCAGGAACCGTCATCGCGGAGTCGGCGATCGATCTGATC
 ACCCGACTCGCCGCACACCTGGGCTTTGACCTGGATGTGGATGTGAATGAA

>RXN00148-downstream

TGATCACGGTTTCTCTAGAAGACA

>RXN00200-upstream

AACCCGAGTCATTTGATCAGATGTGGCAGACCAAGCAAGTGGGACCTTTCGTGGTGGTA
 ACGCACAAATGAGTAATTCTTCACCAAACGACCCAAGCCCT

>RXN00200

ATGCGCCAAGTCGGTGGTAATGGGGGCCATCAACTAGACTCGATCAACGTGTCAGATGTA
 GTTGAGTCGAAGAACTAAAGGTTCTGCGCAAGAACCCCGCAGGTTGCCCGGGCTGG
 CTGAAGAACTGGCTATCTCATCAGGTCTGCTTGGCCTGTTGATGTTTGTGCTGTTGCCT
 TTCCTGCCAGTGAACAGGTGCAGTCTTCGCTGTCTATGGCCACAAAATGGTGAGCTTTCC
 AGCGTTAACGCCCCGCTGATTTCTTACGCACCGCAGTCGATGGATGCGTCCATCCCTGTG
 TCCGCGCTGGACAGTCTCAATGACAATCAGTCGTTGGTGATGGGCACGTTGCCTCTGGAC
 AGTACGGACGCCACCAACCGTGGTCTGTTTGTGCGCACCATCGACGGTAACCTTGACGTG
 ATTGTTGCGGGTGAGGTGCTGTTGGATCTTTCACCAACAGAGGTGAACCGTCTGCCAGAT
 GATGCGATCCTAGAGATTTCTTCCACCGAGGAAACCACAGCGCGGAAATCACCGGCACG
 GCATTACGCGCGAGACCGAAGGCGATGAGCGGCCTCAGGTCACCGGCGTTTACACCGAG
 CTTGTGACGACCCCTCCACCGCATCGGCCCTGGCCTCAGCGGGCTTAAACGTTGATATT

GAGATCAACTCCCGCTTCACTTCATCCCCAGCCTTCTAAAGTACGCAGCCATCTTCATT
GGCCTTGCGTCTGTGTTGGTCTCCCTGTGGACACTGCACCGCATGGATATTTTGGATGGT
CGAAAAGCACACCGCTTCCTGCCTGCCAACTGGTACAAGCTGAAGCCACTTGATGGTGT
GTCGTAGCGATTTTGGTGTCTGGCACTTCCTTGGCGCCAACACCTCTGACGACGGCTTC
ATCATGACCATGGCCCCGCGTGTCCCAGAACGCGGATTATATGGCCAACTACTACCGCTGG
TTCGGTGTCCCAGAATCACCATTTCGGCGCACCATAATTACGACTTGCTGGCTCTGATGGCC
TACATCTCAACCTCATCAATCTGGCTTCGTCTACCCGCATTGCTCGCTGGACTGATCATG
TGGTTCGTGATCACCAGAGAGGTCATGCCACGGTTTGGCTCATTGGTTAACGGTCGCCGC
GTTGCGCACTGGTCTGCAGCCATGGTGTTCCTGGCGTTCTGGCTTCCATAACAACCGGC
ACTCGCCCAGAGCCAATCATCGCGATGGGAGCTCTACTTGCGTGGGTTTCCTTCGAGCGC
GCTATCGCTACCTCCAGGTTGTTGCCCGCTGCCATTGGTGTCAATTATCGCCACCATTTC
CTGGCATCAGGCCCCACCGGTCTAATGGCAGTTGCTGCGTTGCTGGTCAGTTTGTCCGCG
TTGATTTCGCAATTCTTTATAGGCGCTTGCCGCTTATTGGGGCGTCGAGGGGGGCGTCGAAA
AGCAAAGTCTTTGGCGCTTCGATGGCTATGCTTGCCCCATTCTTGCGTCTGGCACC
ATTCTCATCGCGTTTTTGGCGATCAGACTCTGTCAACCGTCATGGAATCCATCAGCGTG
CGCTCCGCGAAGGGCCCGGCACTGACCTGGTACCACGAATATGTGCGCTACCAAACCGTC
ATGGAACAAACCGTTGATGGTTCCCTTCACCCGCCGTTTTGCTGTGCTGATGCTCATGGCG
TGTCTGGCTATTGTGGTTCATCGCGATCCTGCGTTACGGCCGCATTCCAGGCGCTGCGAAG
GGACCATCACTGCGTTTGTGATGATGGTCATTTTTCGGCACCATGTTCTTCATGATGTTACC
CCAACCAAGTGGACTCACCATTTCGGTGTCTACGCAGGACTTGCCGGCGCATTTGGCCGGA
CTTGCTGCCGTGGGGCTGTCTATGTTGCGGTGAAATCACCACGCATGCGCACCATTTC
ATCGGTGCGTTCTCTCTGCTGGCGCTGGCTCTCGCAGGCGTGAACGGATTCTGGTAC
ACCTCCAGCTACGCCGTGCCATGGTGGGATAAAACCATCCAGATCAAGGGCATCGAAGCA
TCCACCGTAGTGCTCGTGATCGCCGTGATCGTGCTGATCATCGGTGTTATTCAATCCTTT
GTCCACGATGTGAAAACCGCGCAAGCCGAAACCAATCACTCCATGGGCGAAGCTCGTGGCG
GAAGATGAAGCAAGCGCGAGCGTGCCCTCAGGTTACCGGCCCTTGCGGCCCTCCCCTATC
GCAGGAGTGTCCGCCCTCGTTGTGCTGATTACCTGCGCATCCATGGGCAAAGGCTTTGTG
GACCAATACCCCGCGTACTCCGTGGGTCTTGGAACCTCCGCTCCCTGACCGGCAACACA
TGTGGCCTTGCTCCGACGCCATGCTGGAAACCAACTCCAACGATTCTTCCTCACTCCA
GTGAATCCACACTTGCGGAGTCCCTGGAATCCGAAGATATTCGCGGCTTTAGTGCTGCC
GGCATCCCACCATCAATCAGCCAGGACCAAGCAGACCTGTCTGCTGTTGGTGCCATTGCC
AACACTGACGACTCCACCGAAACCGGCGGATCCGACGAATCATCCGGACAATCCACCGGC
AACACCGGCGGTGTCCGAGGCTCCGAAGGCATCAACGGCTCCAACGCCCGCCTGCCATT
AACCTGGACTACACCAAGTTCCAGTCTGCTGGCTCCTGGTCCGCTGGCACCCAAAACCCA
GCAACATCACCACCGACTGGTACGAAATCCAGAAGCCACCGAAGAAGCACCCATCATC
GTGGTATCTGCAGCAGGTGCGATCGAACACTACGACATCAACGGCGTCCGCCAATCCGGA
CAATCCGTGATGCTCGAATACGGTTCGCTTTCGCGATAACGGCGACGTTGAAGACCTCGGC
GAAGCCATGATGTACGACATCGGCCCGGAGCCATCCTGGCGCAACCTCCGCTACCCACTT
GACCAACTCCCAGAAGAAGCGGACGTCGTGCGCATCGTCGCCACCGACGTCACCTCGAC
GAAGACCAATGGGTAGCACTGACGCCACCACGCGTACCTAACCTAGATTCTCTGAACAAC
GTCATCGGATCCGAAACCCAGGACTCCTCGACTGGGCAGTTGGCCTGCAATTCCCATGC
CAACGCACCTTGACCACTACGCCGGAGTACCCGAGATTCTGAATACCGAATCTCCCCA
GACCAACCGGCGAAATCCACCTCTCCCCATTCCAAGACTGGGCAGGCGCGGATCCATG
GGCACGGCCGAAGCAGTAAACAACGCCTACGAAATCCCGTCTTACCTCCGCAACGACTGG
GGCGCGACTGGGGTTCCATCGAACGCTACTCGCTGCGCACCAACTCCAACGGCGATGCA
CCTAAGGTTGCAGACATCAACCTTGAAACCATCCAACGTTCCGGACTCTGGAATCCAGGG
CATATGAAGGTAGATGAA

>RXN00200-downstream
TAAGACCTTCAGTACTGGAAGTT

>RXN00231-upstream
CAGGACTACCTCGACGCCGCGCCAACCTTTGTCCGAGTCGGTGCCGATGTCCAGCAACTC
AACGCTGCTGGATACGAAAAGTGAAGGAAAATAACGCATC

>RXN00231
ATGACTATTAATGTTTTCGAACTACTTGTCAAAAGTCCCACGGGTCTACTGATTGGTGAT
TCCTGGGTGGAAGCATCCGACGGCGGTACTTTTCGATGTGGAAAACCCAGCGACGGGTGAA
ACAATCGCAACGCTCGCGTCTGCTACTTCCGAGGATGCACTGGCTGCTCTTGATGCTGCA
TGCGCTGTTTCAGGCCGAGTGGGCTAGGATGCCAGCGCGCGAGCGTTCTAATATTTTACGC
CGCGTTTTGAGCTCGTAGCAGAACGTGCAGAAGAGTTGCCACCCCTCATGACCTTGAA

ATGGGCAAGCCTTTGGCTGAAGCTCGCGGCGAAGTCACCTACGGCAACGAATTCCTGCGC
TGGTTCTCTGAGGAAGCAGTTCGTCTGTATGGCCGTTACGGAACCACACCAGAAGGCAAC
TTGCGGATGCTGACCGCCCTCAAGCCAGTTGGCCCGTGCCCTCCTGATCACCCCATGGAAC
TTCCCACTAGCAATGGCTACCCGCAAGGTGCGACCTGCGATCGCTGCAGGTTGTGTCATG
GTGCTCAAGCCAGCTCGACTTACCCCGCTGACCTCCCAGTATTTTGCTCAGACCATGCTT
GATGCCGGTCTTCCAGCAGGTGTCTCAATGTGGTCTCCGGTGCTTCCGCCTCTGCGATT
TCCAACCCGATTATGGAAGACGATCGCCTTCGTAAAGTCTCCTTACCAGGCTCCACCCCA
GTTGGCCAGCAGCTGCTCAAAAAGGCTGCCGATAAAGTTCTGCGCACCTCCATGGAACTT
GGTGGCAACGCACCTTTTCATTGTCTTCGAGGACGCCGACCTAGATCTCGCGATCGAAGGT
GCCATGGGTGCCAAAATGCGCAACATCGGCGAAGCTTGCACCGCAGCCAACCGTTTCTTA
GTCCACGAATCCGTCGCCGATGAATTCGGCCGTGCTTTCGCTGCCCGCCTTGAAGAGCAA
GTCCTAGGCAACGGCCTCGACGAAGGCGTCACCGTGGGCCCCCTGGTTGAGGAAAAGCA
CGAGACAGCGTTGCATCGCTTGTGACGCCGCCGTGCGCGAAGGTGCCACCGTCTCACC
GGCGGCAAGGCCGGCACAGGTGCAGGCTACTTCTACGAACCAACGGTGCTCACGGGAGTT
TCAACAGATGCGGCTATCCTGAACGAAGAGATCTTCGGTCCCGTCGCACCGATCGTCACC
TTCCAACCCGAGGAAGAAGCCCTGCGTCTAGCCAACTCCACCGAATACGGACTGGCCTCC
TATGTGTTACCCAGGACACCTCACGTATTTTCCGCGTCTCCGATGGTCTCGAGTTCCGC
CTAGTGGGCGTCAATTCCGGTGTCTCTTAACGCTGCTGCACCTTTTGGTGGCGTAAAA
CAATCCGGAATGGGCGCGAAGGTGGTCTCGAAGGAATCGAGGAGTACACCTCCGTGCAG
TACATCGGTATCCGGGATCCTTACGCCGGC

>RXN00231-downstream
TAGCATCTGCCCCCTTTACAAATC

>RXN00296-upstream
TTTTTGTTGGCATGTCTGACATTATCGCACAAATTCACCACAGTAACCGGTAACATGTTAC
TCAAAGCCCGCTTGGATCGAATTTACAAAAGGACCCACC

>RXN00296
ATGACTCACACCATCAAATTCACAGACTCGACCCAGAAGTATTTAGCCAGCATTCTCGC
GCGAAGCTGCGCACGGATATGACAACCCGTGCGCATATTTCTTCTGATGCAGGAATTTTT
AGACGCGTCCCTGCAGCTGTAGCTGAACCAGAAAATGTGGAACAAATTCGTGATGCCATT
GCTGTTGCGGTGGCACGAGGGTGGTCTGTTGTTGGGCGCGGTGGAGGAAGCTCGGTTGCT
GGAATTCGATCGGTGAAGGTTTGATCATCGATACGTCACGCTATTTCAACCGCATTTTA
GATATTGATCCAGTTGCACAACTGCAGTTGTGGAACCCGGTGTGGTGTGTGATGCCTTG
CGCGATGCAGCCGAGAAATTCGGATTAACCTACGGCCCGGATCCTTCCACGCATTCCCGG
TGCACGATCGGTGGCATGGTTGCCAACAATGCGTGTGGTTTCACTCGGTTGCATTCCGT
ACAGCTGCGGAAAATCTCGTGGATGTCACGCTCATGCTCAGCGATGGCCGAGAAGTCACT
GTGACAAAAGATGGCTGCGATGATGCTGAGATCAATCAGAAGCTCACCGACTTAGCGTCC
AAGAATCAGGACCTTATTAGTAAAGAACTGGGTCTGTTTCCCTCGCCAAGTGTCGGGCTAC
GGTTTGCATTATCTTGCCACGACATGGCCAAAGCAATGGCGGGCACCGAGGGAACCAT
GGAATCATTACTCGGTTGACGGTGAAGTTGGTTCCAACACCCAAAGTGAAAGCGCTTGCT
GTCTGGCTTTTCGACACGGTTTTTGACGCCGCCGAGCAGCCGCAAATTCGACTGCCT
GGGGTAGCAACCATTGAAGGCATGGGCGGAGATCTCCTCGCTGCGCTGCGCAGTAAACAG
GGACAATCAGAAGCTGGGCAGAATCTTCCAGGAAACCGCATCGGCATTGAAGCCGGCGGA
TGGTTGTACTGCGAGACAGGAAGTGACACCCTGCAGGCCGCGGTACAAGCCGCCGAGGAA
GTCGCAACCGCCGTTGACACCATTGATTACGTGGTCTGTCTGAGCCTTCTGAAATGCGG
GAATTGTGGCGCATCCGTGAATCCTCGGCGGGCATTGTCACGCGCTTAGCTGATGGTGGG
GAAGCGTGGCCGAATTGGGAAGACTCGGCGGTGCCTCCAGAGAATTTAGCTGATTATCTC
CGCGATCTTTATGCGCTGATGGATAAGTTTCGATTACCAGGGTATTCCATTTGGACACTTT
GGAGAAGGCTGCGTCCACGTTCGCATCAGTTTGTATTTCTCTACCAAGGAAGGCCTGAAG
AAATTTCAGGCGTTTCATGAATGAAGCCTCCACCTTGGTGGCGTCTTATGGTGGCAGCCTC
TCGGGCGAGCATGGAGACGGTCGCGCCGCTCATCTTCTTGACCGCATGTATTCAGCA
GAAATGCGTGCATCTTTCGAAGAATTCAAGCTGATTTTCGATCCCCAGCGCATCTTCAAT
CCGGGAGTGTTGGTCTGGGCAGATCCTGTCTGCAAGGACTTCGCATGGACCCGGGCCAG
CGCGCCCTCGACATCACGCCGTACACAAATTTCTTAAAGACAAAGGTTCCATGATCAAC
GCGGTGAATCGCTGCGTGGGTGTATCCGCATGCCGCTCAGAATCCGACGCGATGTGCCCG
TCCTTCCAAATCACCGGCGACGAAGTACATTCCACCAGAGGCCGCGCCCGCTTGCTCTCT
GAGATGTTCCGCGGTGAATCCATCGCCGACGGCTACCGCAGCGAAGAAGTCAATGAAGCC
CTTGACCTGTGCCTTTCTGCAAAGCATGCGCATCGGAATGTCCAGTCAACGTCGACATG
TCCACCTACAAAGCCGAATTCCTGGACAAACACTACGCCGGCCGACTTCGCCCCATGGCC

CATTACGTCATGGGCTGGCTGCCGCTTCTGGGACACGTTGCCCATAAAAATACCGCTTCTT
CCTACGCTTATCGACGCCACCATGCAGTCAGCACTCACCGCCCCAGTGGTGCGCAAGGTC
GGCGGGCTCGCTGATCGCCGTTGATTTCTTTCGCCCACCGCTCGCTGCGCAAGTACAAG
CCGAAGAAAACTCAGGTGAAACGGTGGTGTGTGGCCCCGATTCTTCAACACCAACCTC
GACACCGGACCAGCTCACGCAGCGATCAAACTCTTGAAGCCCTCGGTTACAACGTGGTC
ATCCCAGATGGCTTCGTCTGCTGTGGACTCACCTGGCATTCCACCGGCCAATTGAGCATG
ACAAAGAAAGTCCTAGAACAAACGGCGAAAGTGATGAAACCCCTACCTGGACCAAGGTCTA
ACAGTCGTTGGTTTGGAAACCTTCGTGCACCGTCATGCTTCAAGATGAGGCAACAGAATC
TCCGATAAACCTGATCTGGCACGCCTTGACGACTGACCAAACCATTCGCTGAGGTCATC
GCACCAAGATCACCGAGCTAGTCGAGTCTGGAAGCCTCCAGCTAACAGAATCAACTGCG
CTTACCCAGGTGCACTGCCACGAGCGTTTCGTAGGCGACCCACAACAATCGGCACCTCGTT
CTTGAAGCTTTGGGTGTAAAAGATGAACAAATTGCCACTGGTTGTTGCGGGCTTGCCGGA
AACTGGGGCTTTGAAAAAGACCACGCTGAAATGTCCTTCGCACTTGGTGAACGAGAGCTG
TTCCCCAAGGTCAGAAAAGCAGAAGGACATGTGATTGCTGACGGTTTCTCCTGCCGCACC
CAGATCGAACAAAGGCACCGGAAAACAAGCAACGCACCTTGACAGAGGTGGTCTTAAGCATC
TTGGAGCAAAACAACATGGCACAA

>RXN00296-downstream
TAACGATCATGCAACAGGTGCTC

>RXN00310-upstream
TTGCGGGATTTCATCATCGGCGCAATCGCACTGTCTGCCGCAGTTATTTTGACCACCAAGG
AAACCGCCTTCACCAAGCTTGAAGATCTAGGGAAGAAATA

>RXN00310
ATGTCTGACAAGATCTGGAAAGTCGGCATCATCGGTTGCGGTGCAATCAGCCGAAACCAT
ATCGAAGCAGTTCAGGCAATCCCCGGCGCAGAAGTCAGCGCAGTCTGTGATGTGGATGGT
GCGAAAGCATCGGAAACCGCAGCGAAATATGGAATTTCTCCAGTTTCACGTCTGTGAT
GAGATCCTCGCCTCCGGGGTGGACATTGTGCGAGTCTGCACCCACATCCAACCCACGAA
ACAGTGGTCTCGCCGCTGCTGCCGCCGAGTGCACGTGCTTTGTGAGAAGCCAATCGCC
ATCGAAGTTCGATTCCGCACAGCGCATGATCGATGCCTGCGAGTCCGCAGGGGTCCAATT
GGCGTGCTCTTCCAGCGCCGCTTCTGGCCCGCGCTCAAAAAATGAAAAAGGAGCCGTCA
TGGGCCAATGCACGG

>RXN00310-downstream
TAGCGCTTTACCGAGAGCATTCC

>RXN00316-upstream
AGCGCATGATCGATGCCTGCGAGTCCGCAGGGGTCCAATTGGCGTGCTCTTCCAGCGCC
GCTTCTGGCCCGCGGCTCAAAAAATGAAAAAGGAGCCGTC

>RXN00316
ATGGGCCAATGCACGGTAGCGCTTTACCGAGAGCATTCTATTACACAGCAACCCCATGG
CGAGGAACCTGGGCAGCCGATGGCGGTGGAGTGCTCATGACTCAAGCCATCCACTACATC
GATCTTTTGTACTGGCTGTTGGGCGAACCCGTGGAAGTTTTCGGCTACACCAACTCCTTC
AAACACGGCGACAACATCGAAGTCGAAGACAGCGCCGTTGCCACTGTGCGTTTTGAATCG
GGCGCGTTGGCCACAATTTAGCCACCACCGCCGAGAGCCAGCACTCGGCGCACAAGTG
CAGGTGATGGGAACAAAGGGTGCCACCATGACGATCCTGGAATTCCCTGAAGGTACCGAC
GGCAGGCTCATTGTTTCGAGTGAAAACGACACCCGTCGAAACCACCCCATTCACCCCGC
GGATCTTTATCCCAATGCCGATCTTTCCATCATCAACGGTGCTTTGATCCCGTATCACAC
CGCCAGATCGCAGACTTTATCGATGCGCTCAACGAAGGCCGCCACCACTGATCACCGG
CCGCGATGCCACGAGCTCTGAAAGTTCTCCTTGGTGCTACGAATCAGCAGCCACCCA
CCAGCCGGTCTCTTTGATCTAACGGAAGCTTTTAAACGTCACGCCAAATCGGTCTTGCA
CCTTTATCCTCCCTGTCCACACCACCTGATCAACTAGTGCGCCTCGCAGCTGCCACTGGT
TTCTCCTTTGTGCGTCTGCGCGTCATCGCAGTAACCCCCAACGAACGTGTATATGACCTT
TCCCCAGGATCCCCACTGCTGGCTGCAACCCAACAAGCGTTGAAAGAAACCGCCCTGTAT
GTGCTCGACACTGAATTCTTACAGGTAAACGCAGACACCACCCGCGAGGCCTGGCTTCCC
GCACTAGAAGCCGCCGGAGCACTGGGAGCTAAAACCTTACCATCGCCGCCGGTGATGAC
AACATTGCGCCCCCTGACCGACACGATCGGTGCCATGGTTGACGATGCCCGTGATTTCCGA
GTCACCCAGCCCTAGAGCCAATCTCTTACCGCAGCGTGATTCATTCCGCAGGCAGCA
GCAATCGCCAGAGACTCCGGCGGAAAAGTCGTGGCGGACACCTTGACATGGCCAGGTTT

GGAGCC

>RXN00317-upstream

CAACGGTTACATCACTCACGCATTAACCTCCCCTGGTTGGTACCGCATGTTTCGTTTCCCAA
GTCTAGCCAAGCCTTGAAAAATTCTGGCAAGGTTAATGGT

>RXN00317

GTGACTACGCCTTCTAAGAAAACCTCTGCTCTTTGATCTCGACGGAACCCCTCGTCGATTCT
TTCCCCGGTATCCGCACTTCATTCCTTCACACCCTGCACGAAAAGAACTGGGAAATCCCC
TCTGAGGAACGCATCTCGCAAGTTCAGGACCTCCCATGGAATGGACGTTCAGGATTTG
GGCATGACTCCAGAGCAGGCACAAGACGCTCTGCAGACCTACCTTGAGCATTACGGCCAG
GTGGGTTGGGATCTTTCCGAAGCATTCCCCGGCATGCGAGATTTGCTGATCCGCTTGAAA
TACGAAGGTTTCCGTCTGTGCACCGCCACCTCCAAGGGCGAGTTCTTTGCGGAGAAGGTA
CTTCGCAAATTCGAGATGTTTCGATCTCTTCGAATTCATGGGTGCCGCCACCGACAGCGGC
AACCGACGCAGCAAATCTGCCGTGATCAAACATGTCTCGACAGCGTTGGGTTGGACGAA
CCAAATGATATTTTGATGATTGGTGATCGATCACACGATATTGAAGGTTGAGTGAATTC
GGCATCGATTGTGTTGCCGTAACTGGGGCTACGGCAGCAAACTGAATGGGACGCTGCC
CGCTACACCGTGAGCACCGCAGAAGAATTAGAAAGGATCATCCATGACTGGGCC

>RXN00317-downstream

TAAAACTTCGCTACCTGTGGAAA

>RXN00337-upstream

GGACGCTTATTGGTGAGCATTCGGATTACGCCGGTGGTGTGGTGCTGGCGGCTAATGCCA
ATTGCCGGACTGCGGCTGCCGTCAATAAAGAACC GCGACG

>RXN00337

ATGTTGTAAACGTATGCGTTTGTGGATGTGGAGGGAGGCGTCGAAAAGCATTCTTTAAGC
ACTGCGGACATTGCAGCTCGCGCACACGCCCATATGAAATCCCATGATGTTTTGGGGCGG
CAGACTACGCCGCTCAGCCGGAGGGCGGCGTTGCTGCCCGGTTGGGCGGGATTGCGTGG
ACAATGATCCATAAGCAAATGCTTTCGCGTGACACAAAAGGCCTGGATATCACCGTGTTG
AGCACCATTCCTGAGGGGGTGGGGCTGGGTGAAAATTCGCCCATGGATGTGGCGCTCGCA
TTGGCGCTGTATCGGGAATAATGAGGAAGCCCCACGAAGGCGCGCATTCGCGGAGATT
TGTTTCGAGTCCGCATTTCATGTTTCAGTGAGACTTCAGTGTTCGCTGCGCGGCACACCGTG
GCGTTGCGGGGTGAAACTGGACAGATTTTCGGTGGTTGATTACGCCGATGGTTCGGTCACT
CAGGCGCCACATCCGGTGAGTCGTTCCGCTGGTTTGTTCGGCATTGTTGTTGCTGCGCAA
ACTGAAACTGATCCGAGCATTTACCGCGAGATCTATGCTCGACATGCGTTTATCGATGAA
GCTGCGCGCGCTTTTCAGTGTGGAATCTTTGCGGTTGCTTCCCGACGCTTCCACTCGTGT
GTGGATTGGTTGCAGGCCGTGATTGAGGTGACTGGTCGAGAGGATCTGCCCTCGATTGAA
CAAGCCCAGCGCTGGTTGAATCTGTGGGAAAACGAAACCCGGCGCGCTCAGAGGACAGCC
AATGCCCTGCGTTTCGAGAAGGCTGAGTGAGTTTCTGAGCTGCTGATGGAATCCCAAGAT
GATTTGAGCGACACCTTCGATTCCCCCTGCTGATTTGGCGCTTGTCTGTTTGTGCGTC
GAGCGGGGTGCCAGCTGCTCGGTCCACGTACGCGCGCGGTGTGATTGCGTTGGTTGAT
GCCCATCATGCGCACAATTTTGTCTGCGGATCTCAGCGAGGATGGCTTGTTGGTGGTTCT
CTCGGGCACGGGGACGTGCGGGAACAGGGC

>RXN00337-downstream

TAGCACGCCTACTTAACCAGCCT

>RXN00387-upstream

TTCCGCGCCGGCGCCAACTTCGACGGCACCGGGCTGACCACCTTCTGCTTTGAAGCGCAC
GATTTCTCCGCCGACTACCTCGCCAACGGGGCCAGGCCGAG

>RXN00387

ATGTTCCGCTCGAATATTTCTACGCAGTCGGCGACGACATCCAAAACGACCCAGAAACC
TGGAAGACTACGAACTTCGCGTCAACCACCCACTGCGCATCGAAGGCGACCGGTCTAC
CTTCAGGGCCACGGCTTCGCCCCAACATTACCGTGACCTGGCCAAATGGCGAGACCCGC
ACCCAGACCGTGAGTGGCGCCAGACGACCCGACCTTCTTCTGTCTCAGGCGTGGTC
CGTTTCGATCCACCCGCCGGCATGTACCCAGACCTTTACGAGCGCCGCCAAAACCAAGTTG
GCCATCCAGGGACTTTTCGCACCGACCGCGGAATGGGAAGGCGACAACAACGAACGCTG
ACCTCCTCCTACCCGGCGATGCGTGACCCAGCCGTGGCGATCGATATTTACCGCGGCGAC

AATGGCCTCGATACCGGCATCGGACAGTCATTGTTTACGCTGGACTCTAGTCTCATGCAC
 AGCGGCGTGCTGCAAAAAATGAGCGCGTCAACCTCCAAATCGGCGACACCGTCACCCTG
 GATGATGGCACCACCGTCTCCTTCGACGGCGCGTCAGAATTTGCCAACTACCAGATCAGC
 CGCGACCCACACAAAACCTGGGTGCTGGTCACCACCGTGATTTGCTGGTCTCCCTGGTT
 GGATCCCTGATGATCCGACGCCGCCGCAATTTGGGTGCGTTTCTATCCACAAGAAAACGGA
 ACCACCCGCGTGGAACCGGCGGACTTGCCCGCACCGACCGCGCAGGCTGGGGTGGCGAA
 TACGAGAAATTCCACCGCGAACTGCTGGGTCTGAAGGAGGAAGATGAAGACGAAGAGTAC
 TTCGACCACGACGAC

>RXN00387-downstream
 TAACACCGCAATTTAAAGGCTTT

>RXN00388-upstream
 GAAGAGTACTTCGACCACGACGACTAACACCGCAATTTAAAGGCTTTTCAAGCCTGCCCC
 ACATCGAAGCAGTTTTTCAAAAGAATAAGGTTGGAAAATT

>RXN00388
 ATGTTGCCCGTCAACCAAACGTATGCGCAGTTCTCAGACACTGCCTTCGTATCGGCATAC
 ATCATCTACGTTCTGGCACTCATCCTCTCCCTCGTCTACTACGTAAAACAACAAGGCATT
 ATCGACGCCCGCGCGAGCAAACCCGCGTCAGCGAACTCGTTGGTGCAGGCGGCAGCGCT
 GATGTTGATACTGACCTGCCTGATGACATCGCCGACGGTGTCTCGCCGACGAAGACCTT
 GCAAAACGCGAAGAAACCGCACGCAAACCTAGCCAACATGACCCAATCTCTCATGTGGCTC
 GCGTTCATGGTGCACCTCGTATCCGTCGTGATGCGCGCGCTGTCTGCCAGCCGATTCCCC
 TTCGGCAACCTGTATGAATACATCCTCATGGTCACCCTCTTCGCCATGATCGGAGCCGTA
 CTCATCCTGCAGCGCCCACAATTCCGCGTGGTATGGCCATGGATCCTCACCCCAATGCTG
 GCACTGCTCTTCTACGGTGGCACCCAGCTGTACTCCGACGACGACCAAGTCTGTTCCAGCA
 CTGCAGTCTTCTGGTTCCCGATCCACGTTTCTCCTCGTCTCCATCGGCGCATCCATCGGT
 ATCGTCTCCGGTATTGCATCCCTGCTGTACATACTGCGCATGTGGCAACCAAAGGGTAAA
 GAAAAGGGCTTCTTCGGCGCAGTAGCAAACCACTCCCATCCGGAAAAACCTGGATAAC
 CTGGCATACAAGACCGCGATCTGGACTGTCCCAATCTTCGGCCTGGGCATCATCTTGGGT
 GCCATCTGGGCAGAAGCAGCCTGGGGTCTGTTTCTGGGGATGGGATCCTAAGGAAACAGTC
 TCCTTCATCACCTGGGTTCTCTACGCTGGTTACCTCCACGCACGTGCAACTGCTGGTTGG
 CGCAACACCAACGCTGCATGGATCAACATCCTGGCGCTGGTCACGATGATTTTTAATCTG
 TTCTTCATCAACATGGTCGTATCTGGTCTGCACTCTTACGCCGACTGAAC

>RXN00388-downstream
 TAAGCACTTTTGGTTGGCGGGGT

>RXN00389-upstream
 CCACCACTGCGTAACCTTTCCGAGCAAGATATCGCGGACCTGTGCGATTGCTTGCCACC
 TCTGGCGCAGGTTTCTACCGCCTTCAGTTGAGGTGAAAGC

>RXN00389
 ATGATCACCGCAACCGCACTGCATGGGTGTTCACTGATTGATGGCGAGTGGGTGCGTGGA
 AAAAATGGTGAGATTACAGGATTCGATCCGCGCACCAATGCGAGTCTGAACCCCTTCCTAC
 TCTTTAGCAAACAGCGCACAGCTGCGCGCCGCCACAACATCGGCGAAGCGAGCTTTTGAA
 AGCTACCGACTCACTACTCCAGAGGTTAGAGCAGATTTCTTGGATTCCATCGCTGACAAC
 ATCGATGCGCTATCCGGCGAGATCGTGCAACGGGCGAGCCTGGAGACAGGTTTGGGAACCT
 ACCCGACTCACAGGCGAAGTAGCCCGCACCAAGCAACAGCTCCGCCTGTTTGCAGAAACC
 GTGAGAAGCGGACAGTTCCACCGAGTACGCATTGAACGAGGACCGCGGATTGATCTTCGC
 CAGCGTCAGGTTCCGTTGGGACCACTCGCGGTATTTCGGGGCAAGCAACTTCCCGTCCGCT
 TTCTCTACTGCTGGTGGCGATACAGCATCAGCGTTGGCTGCAGGCTGCCCTGTGGTTTTT
 AAGGCGCATAATGCGCACCCCTGGAACAGCTGAGCTCGTCGGGCAAGCGGTGCGGGGAGCC
 GTCGAAAAGCATGAGTTTGATGCTGGTGTGTTTAACTTGTCTACGGCCGTGGCGTGGA
 ATTGGCCAGGAGCTGGCTGCGGATCCGAATATCACGGCAATCGGTTTTACCGGTTACGCG
 CAGGGTGGTTTGGCACTGTACAGACTGCGTTTTAGCCGCCAGTTCCCGTCCAGTCTTT
 GCAGAAATGAGTGCCACCAACCTGTGTTTCGTCTTCCCGGCGCGCTGGCGGATTGAT
 GCATCGAGTTCTTGGCTGAGGCGTTTTACCGCTCCGTCACCGGCAGTTCCGGGCAATTG
 TGCACCAAGCCTGGCCTCGTTTTATCCCGCGCGGTGTTGTTGGTGATGCTTTTGTGGCG
 CTCGTAGCAGCCAAATTTAAAGAAACCAGGGTCAAACGATGCTCACGCAAGGCATCGCT
 CAGGCATGGCAGCGCGGAGTCGACAACCTTGCAGCACAGCCAAGTGTAATAATCCTCGCC

CAAGGCACCCCGGAGATGGAGAGAACGCGCCGGGCCCGGTGGTGTGAAAGTGATGTG
CAGGCGTTGCTAAATAATGTGGTGTGTCAGGAAGAAATCTTCGGTGCGGCATCGCTGGTG
GTGCGTTATGATTCCCCGGATCAACTCCACCAAGTAGCCAATTCCTCGAGGGACAATTA
ACAGCCACGATCCACGCATCCAGGATGATTTCCAGGAAGTCTCGAAACTTATCCCCCTC
TTGGAGGATCTCGCGGGCCGTGTTCTTTACGGCGGCTGGCCAACGGGTGTGGAAGTTGGG
CACACGGTTATCCATGGAGGGCCCTTATCCGGCGACCTCAAATGCGCAGTCGACAAGTGT
GGAACCCTGGCAATCGAGAGATTTATGCGCCCGGTTTCTTATCAAACCTTCCCGGCTGAG
CTGCTTCCAGATCCAGTTTCTGAGGCGAATAAATGGGCTGTACCTCGGGAAATAGACCGT

>RXN00389-downstream
TAATAGCTGGTCTTTACATTTGC

>RXN00401-upstream
CTTTTAAGCATTTCAACATGCCAACTAATCTTGGACAGGTATCACTGGCTCCTCTTAGA
CTCCAAAGTGTCTTAGAAAACTCACCCAAGGAGCCCTC

>RXN00401
ATGGCACGCTTTTCACCACAAGATCTCGCAGACCACCTCAAGGATGGACTGCTCTCTTTC
CCGGCCACCGCTTTCCAAGATGACCTCGAAGTAGATGAAGCTGCTTATGTGAGCACATT
GAATGGCAGTCCAGCTACCCAGTCGCGGGCCTCTTCGCGAGCTGGCGGTACTGGCGAAGGA
TTCAGCCTTACCGTTGAGGAAAACACCGTGTCACTCAACTTGCAGTTCAGGCGTCCAGC
CCGGAAGTTCCCGTGTGGGGTCTGCTACTGGCTCAACTAAGTCTGCCATCGCAAACGCA
CAGGGCGCAGAGGCAGCAGGCGCTGAAGGTGTCTCTGCTTCCCTACCTCACCGAA
TGCGACGCAGAAGGCCTGTACAACCATGCAGCCGAGTCTGTGAATCCACTTCTCTGGT
GTCATCGTGTACAACCGTGCCAATGCCATCTACTCCCCAGAGGTTATCGCTCGACTCTCT
GAGCGCTACCCCAACTTCATTGGATTTAAAGATGGCACCGGAAACATCGAGCACCTAGCA
AAGATCACACGCTATGCGGAGATCGCCTGTTCTACCTCGGTGGACTTCCCACCGCTGAG
ACCTTTGCACTACCACTGCTTCAGATGGGCATGAGCACCTACTCTCTGCAATGTTCAAC
TTCATTCCAGATTTTCGCACTGAGCTTCTACGCCGATGTTTCGTGCGCAGGACAGCGCAGCA
GTAAAGCAGAAGCTGAGCGATTTTGTGCTCCCTACTTGGATATCCGCGATCGCGCACAA
GGCTACGGTGTCTCCATTGGTAAGGGCGGACTCAAGGCTGTTGGCCGCAACGCTGGCGGC
GTTTCGCCACCACTGCGTAACCTTTCCGAGCAAGATATCGCGGACCTGTCGGATTGCTT
GCCACCTCTGGCGCAGGTTCTTACCGCCTTCAGTTGAGG

>RXN00401-downstream
TGAAAGCATGATCACCGCAACCG

RXN00427-upstream
GCGGTCATTGTGACCCACAATCGTGTGGAATTGCTGCGGCATTCCCTCGAGGTTGTTGCC
AATCAAACCTATCCGGTGAAACACATTGTGGTGGTGGATA

>RXN00427
ATGGGGCGGATCCTAGTATTCTATAGTGTCACCTTTAGAGGTGGCGGGAGACCGTCCCGTT
TACACGCCTTCGCGCACCAATTTGGGCGACGGTGGCGGTTTTGCTTTTGGTTTTTTGACG
GCGTTGGCGCTGGGGGCGAACGCGGTGTGGTGCACAGACGATGACGGCCGGCCGGAGGGG
CCAGGGGTGTTGAAGACGCTTATCGACGCCGCTTCTCGGCATAATCTGGAGGAGGTTTCT
CCGGTGGTATGCAATGCTGATGATCCGGAGCGGTTGGCATTTCGCTGCGTGGGGGCTTG
GAGTGGCGTCGGATGCGCAGTGAGTTGATTGATCCAGCCAACCCGGAGGATGATTTGCTG
CCGGGCATCGCCTCCTTGTTCATGGTGCCCTGATCAGCGCTTATGCAATGGAGCGCATT
GGCGTGCCGGACTATCGACTGTTTATTCGCGCGATGAGGTGGAGTATCACCGCCGTTTG
GTGCTTCCGGTTTGCCGTTTGGTACGTGTTTGACCACGGCGTATTTGCACCCGATGGT
TCTGATGAGTTCAAGCCGATTCTGGGTGGGCGGATGCATACGCAGTATCCGGATAATGAT
TTCAAGAGGTTTTTACCTACCGCAACCGTGGCTACCTGATGAGCCAGCCGGGAATGCGC
AAGCTTCTCCCTCAGGAATATGCGCGCTTTGCGTGGTTCTTCTGGTTTCAGAAACGGGAT
GTGAAGGGATTCCGGGAGTGGCTGCGCCTGCACAACTGGGCCGCGACGAGAAATTCAT
AGGCC

>RXN00427-downstream
TAGATCAGTTTTAGTAGTTCCCTC

>RXN00483-upstream

AGACCCAAGAGTAAAAATCCCAGGATTTGCTTATACTTGGCTCATGGATAATCAACTTCG
TCCCACCTTTGCATTATCAAGCTCAAAACCCGCACCGGCGA

>RXN00483

GTGCTGGTCACCGGTGCGACAGGCTACATTGGCGGCAGGTTGATTACTGAGTTACTTGCT
GCCGGTTTCCAAGTTCCGGGCCACCTCGAGGAAAAAACAAGTCTTCAGCGCTTTGACTGG
TACGAGGACGTCGAGGCAGTGAAGCGGATCTGACTGACGCGACTGAGTTAGATACGTTA
TTTAAGGATGTAGACGTTGTTTACTATCTAGTGCATTCCATGGGAGGTAAGAATGTTGAT
TTTGAAGAGCAAGAGCAACGCACTGCTGAAAATGTAATTCAAGCTGCTGATCAAGCCGGG
ATAAAACAGATTGTCTACCTTTCCGGCTTACACCCGCGTAATCGAAAAATAGAAGAACTA
TCTAAGCACATGCGCTCACGGGAAAAGGTCGCCCAGATTTTGCTGGCAGGCCAGACACCA
GCTTTAATTTTAAGGGCTGCCACAATTATTGGTTCCGGCTCTGCATCATTGAAATAATC
CGTCATCTCACGGAGCGTTTGCCTAGAATGATAGCGCCTCAGTGGATTACTAATCAGATT
GAGCCTTTAGCAATACGGGATGTTTTGCATTACCTAATCTCGGCGGCTGATTTAAAGGAT
CCAGTCAACCGCTCCTGCGATATTGGGTGTGGAAAGTCGTATGAATTTGCGGATCTATTG
CGTATCTATGCCGATGTTCCGGGACTGAAACGTCATGTAAATTCGTACCTCTCAATTTG
CCCATGGACAAGTATCCGGTCTTTGGATTAGTCTAGTGACACCTGTTCCATTTCAATTTG
TCTTTCCCTTTAGCTCAATCAATGGCTGAGGATGCCGTCAGTGAAGAGCACAGCATTTAA
GATATTATTTTCAGATCCACCCGATGGTTTTATTGAGTATCGGGAAGCAGTGGAGCTGGCA
TTAGCTGCAGAATTTGATCGTGGAGTTCCAACGTCATGGGATCGAAGCTGGACTGTACAA
CAACCGTGGGCTGGCCAGCCTACCGATCCAGAGTGGGCGGGCAAAGCTGTATATGAAGAC
GTCCGCACAGAAGATACTGATCTCCGAGCAGCGCAGGTCTGGCCGATCATTGAAGGTTTG
GGTGGCGTGAACGGCTGGTATTCTGCACCACTGCTATGGCGATTGCGGGGTATCGCTGAC
AGACTCATCGGCGGTCCAGGTTTGGGCGGACGGCGGGATCCCCGTCAATTTGAAACTTGGG
GATCGCATTGATTGGTGGCGGGTTACTGAGATCGATCCACCACATAGATTAGTGCTCACC
GCAGAGATGAAGTAGATGGTGGCGCTTGGCTGATCCTGGAAGTTGCGGACAAGGAAAAT
GGCGGATGTACTTATACCCAGCGCGCAATATTTGAGCCGAAGGGTTTCCCCGGTTATCTC
TATTGGTGGGTTGTTTACCCGTTCCATGCGATTATTTTTCTTATATGCGTTTCAATATT
TTAAAGCTGCGCGTAAACTCACT

>RXN00483-downstream

TAATCGCAGAGTAGGCGTCTAAA

>RXN00519-upstream

TTTCCATGCGGGCTGAAACTGCCACCATAGGCGCCAGCAATTAGTAGAACACTGTATTG
TAGGTAGCTGAACAAAAGAGCCCATCAACCAAGGAGACTC

>RXN00519

ATGGCTAAGATCATCTGGACCCGCACCGACGAAGCACCGCTGCTCGCGACCTACTCGCTG
AAGCCGGTCGTGAGGCATTTGCTGCTACCGCGGGCATTGAGGTGAGACCCGGGACATT
TCACTCGCTGGACGCATCCTCGCCCAGTTCAGAGCGCCTCACCGAAGATCAGAAGGTA
GGCAACGCATCGCAGAACTCGGCGAGCTTGCTAAGACTCCTGAAGCAAACATCATTAAG
CTTCCAAACATCTCCGCTTCTGTTCCACAGCTCAAGGCTGCTATTAAGGAACTGCAGGAC
CAGGGCTACGACATCCAGAACTGCCTGATAACGCCACCACCGACGAGGAAAAAGACATC
CTCGCACGCTACAACGCTGTTAAGGGTTCCGCTGTGAACCCAGTGCTGCGTGAAGGCAAC
TCTGACCGCCGCGCACCAATCGCTGTCAAGAACTTTGTTAAGAAGTTCCACACCCGCATG
GGCGAGTGGTCTGCAGATTCCAAGACCAACGTTGCAACCATGGATGCAAACGACTTCCGC
CACAACGAGAAGTCCATCATCCTCGACGCTGCTGATGAAGTTCAGATCAAGCACATCGCA
GCTGACGGCACCGAGACCATCCTCAAGGACAGCCTCAAGCTTCTTGAAGGCGAAGTTCTA
GACGGAACCGTTCTGTCCGCAAAGGCACTGGACGCATTCTTCTCGAGCAGGTGCGTCCG
GCAAAAGGCAGAAGGTATCCTCTTCTCCGCACACCTGAAGGCCACCATGATGAAGGTCTCC
GACCAATCATCTTCGGCCACGTTGTGCGCGCTTACTTCGAGACGTTTTTCGCACAGTAC
GGTGAGCAGCTGCTCGCAGCTGGCCTCAACGGCGGAAAACGGCCTCGCTGCAATCCTCTCC
GGCTTGGAGTCCCTGGACAACGGCGAAGAAATCAAGGCTGCATTTCGAGAAGGGCTTGGAA
GACGGCCCAGACCTGGCCATGGTTAACTCCGCTCGCGGCATCACCACCTGCATGTCCCT
TCCGATGTTCATCGTGGACGCTTCCATGCCAGCAATGATTTCGTACCTCCGGCCACATGTGG
AACAAAGACGACAGGAGCAGGACACCCTGGCAATCATCCAGACTCCTCCTACGCTGGC
GTCTACCAGACCGTTATCGAAGACTGCCGCAAGAACGGCGCATTCGATCCAACCACCATG
GGTACCGTCCCTAACGTTGGTCTGATGGCTCAGAAGGCTGAAGAGTACGGCTCCCATGAC
AAGACCTTCCGCATCGAAGCAGACGGTGTGGTTTCAGGTTGTTTCTTCAACGGCGACGTT
CTCATCGAGCACGACGTTGAGGCAATGACATCTGGCGTGCATGCCAGGTCAAGGATGCC

CCAATCCAGGATTGGGTAAAGCTTGCTGTCACCCGCTCCCGTCTCTCCGGAATGCCTGCA
 GTGTTCTGGTTGGATCCAGAGCGCGCACACGACCGCAACCTGGCTTCCCTCGTTGAGAAG
 TACCTGGCTGACCACGACACCGAGGGCCTGGACATCCAGATCCTCTCCCCTGTTGAGGCA
 ACCCAGCTCTCCATCGACCGCATCCGCCGTGGCGAGGACACCATCTCTGTCACCGGTAAC
 GTTCTGCGTGACTACAACACCGACCTCTTCCCAATCCTGGAGCTGGGCACCTCTGCAAAG
 ATGCTGTCTGTGCTTCTTTGATGGCTGGCGGCGGACTGTTGAGACCGGTGCTGGTGGA
 TCTGCTCCTAAGCAGTCCAGCAGGTTCAGGAAGAAAACCACTGCGTTGGGATTCCCTC
 GGTGAGTTCCCTCGCATGGCTGAGTCCCTCCGCCACGAGCTCAACAACAACGGCAACACC
 AAGGCCGGCGTTCTGGCTGACGCTCTGGACAAGGCAACTGAGAAGCTGCTGAACGAAGAG
 AAGTCCCCATCCCGCAAGGTTGGCGAGATCGACAACCGTGGCTCCCACTTCTGGCTGACC
 AAGTTCTGGGCTGACGAGCTCGCTGCTCAGACCGAGGACGCAGATCTGGCTGCTACCTTC
 GCACCAGTCGCAGAAGCACTGAACACAGGCGCTGCAGACATCGATGCTGCACTGCTCGCA
 GTTCAGGGTGGAGCAACTGACCTTGGTGGCTACTACTCCCCTAACGAGGAGAAGCTCACC
 AACATCATGCGCCCAGTCGCACAGTTCAACGAGATCGTTGACGCACTGAAGAAG

>RXN00519-downstream
 TAAAGTCTCTTCACAAAAAGCGC

>RXN00595-upstream
 CGACGACACCCGGTCCATCGAACCAGATGACGATCAATCGCCTTTGACTACTAGCGCTCG
 TTCAGTCACCAACCCAACAGATCAGGAGGATAAAGCTTAA

>RXN00595
 ATGGCCATGGATGTTCTCCTTCCTATTTTCGTTGCAGTTCCCTTGCTGCCTCTGCCATT
 GCGGTGCTTCTGCCGTGGCGTCTCATCCGCGATATTTTGACATCATCGTGCTTTTCGCG
 GGTATTTTTCGCTGGCATCTGGTTGTTTGACACACCGCTGAACACGGCCCGATTGCTCAC
 AACGTGGGCCTTTATGTCGGTGGCGTGGCAATCCCTTTGCTGCCGATACGTTACGCGCC
 ATCATGTTGATCACCACCTCGATCGTTGCGGTGGCTGCCAACTGGTTTGCCACCATCGTC
 GGTGAAACCCGCGCGCGTTTCTATCCAGCGCTCACATTGATGCTGATCACGGGCGTCAAC
 GGTGCTCTGCTGACTGCCGATCTGTTCAACTTCTTTGTGTTTCATCGAAGTGATGCTGCTG
 CCTTCCTATGGTTTGATCGCCATGACCGGAACGTGGGCGCGCCTAGCCTCTGGACGAATC
 TTCGTACTAGTCAATCTCTCTGCCTCCACATTGCTGGTTGCAGGTGTGGGAATCGTCTAC
 GGTGTCATAGGCTCAGTCAACATCGCAGCTCTGCAAGATGTCGTAGAGGGCAACCCCTG
 GTTGCCAGCGCAATGGGCATCGTGTTATTGCCATCGCGTTAAAGCCGGTGTTATCCCA
 GTGCACACATGGCTGCCACGCACCTATCCTGGTACATCAGCAGCTGTGATGGGGTTGTTT
 TCCGGTTTGACACACCAAAGTCGCGGTATACATGCTCTATCGCATTTGGGTCCACATTTT
 AACATGGATCCCACGTGGAATTGGCTGATTGTCGCATTTCATGGTGATATCCATGCTGGTC
 GGTGGCTTCGCTGGACTTGCTGAAAACCTCCATCCGTCGCGTCTTGCCTACCAAATGGTC
 AACGGCATGCCATTTATTCTCATCATGATGGCGTTTACCTCTGACGATCCACAGCGCGCA
 CTTGCCGCTGGTCTGTTGTACACCCTGCACCACATGATCACCATCGCCGCATTGGTGCTC
 ACTTCCGGCGCAATCGAAGAAACCTACGGCACCGGTATGTTGTCCAAGCTGTCTGGCCTT
 GCACGCCGCGAACCCGTGCTCGCAGCAGTGTTCGCTGCAGGTGCCTTCTCTGTTGTCGGT
 TTCCACCGTTTTTCCGGTATGTGGGGCAAAGCGCTCATCTGCTCGAGATCGCCCGCGTC
 GGCAATATTGCAGATGGATCGCAATCGCCGCCATCATCATCGCCAGCCTGGGCGCATG
 CTCTCGATGATCCGCGTGTGGCGTGAAGTCTTCTGGGGTGGCGCAATGCACCAGCGCGGC
 GTCTCGCCGAGCTGCGCATCAGCCCAGCAAAAATCGCCCCAGCGCTCAGCCTGATCATT
 TTATCGGTAGGCATGTTTCATCTTCGCGGGCCCGTTATCGACGCGACCTCACCGCCACC
 GACGGCCTCTTGAACACCGATGCATACCAACAGGCTGTGCTCGGTGAAAATGCCATCGGA
 GTGCCAAGCCCTAGCTACCAGGGAGGAAAC

>RXN00595-downstream
 TAATGCTTAACGCCCTGAAATTC

>RXN00528-upstream
 TTCTGCTGGGAATCCCCACATTTTGGAACGTAGCGTCGATAAGCGTGCGGCGAAGCTTTT
 TCGGTGCGGGCCGTTATCTTTTAAAGAGGAGAAATTTTAG

>RXN00528
 ATGAGCACGTCCACCATCAGGGTTGCCATTGCCGGAGTCGGAAACTGCGCGACCTCCCTC
 ATTACGGGTGTGGAATATTACCGAAATGCGGATCCTTCCGAAACTGTCCCGGGTTTGATG
 CACGTCAAATTCGGTGATTACCACGTTGGCGACATTGAATTCGTGGCCGCGTTCGACGTC

GACGCCGAAAAAGTAGGCATCGATCTTGCCGACGCCACCGAGGCTTCACAAAACCTGCACT
 ATCAAAATCGCCGATGTCCACAGACCGGCATCAACGTGCTGCGTGGCCCGACTCTCGAC
 GGCCTGGGCGATCATTACCGCGCGACCATCGACGAGTCCACCGCCGAGCCAGTCGACGTT
 GTCCAGGCGCTTATCGACGCAAAAGCCGATGTTTTGGTGTCTTACCTCCCAGTGGGCTCC
 GAAGAAGCCGACAAATTCTACGCACAAGCCGCCATCGATGCAGGCTGCGCCTTTGTCAAC
 GCTCTCCAGTATTCATCGCCTCCGACCCTGAGTGGGCTAAGAAGTTCACTGACGCTGGC
 ATCCCAATTGTTGGCGATGACATCAAATCCCAGATCGGTGCAACCATCACCCACCGTGTC
 CTCGCACGCCCTTTTGAAGAACGTGGCGTTTCGCGTAGATCGCACCATGCAGCTCAACGTC
 GGCGGCAACATGGACTTCAAAAACATGCTTGACCGCAATCGCTTGGAAATCCAAGAAGGTC
 TCCAAAACCCAAAGCAGTGACCTCCAACATTCCAGATGGTCCACTGTCTGGAAAGGTGGAA
 GACCGCAACGTCCACATCGGACCATCCGACCACGTCCAATGGCTCGATGACCGCAAGTGG
 GCTTATGTCCGCCTCGAAGGCACCGCATTCGGTGGAGTTCCCTCAACCTTGAGTACAAA
 CTCGAGGTGTGGGATTACCCAACTCTGCCGGCATCATCATCGACGCTGTTTCGCGCCGCC
 AAGATCGCCCTCGATCGCGGTATCGGCGGACCGATCATGCCAGCAAGCTCCTACCTGATG
 AAGTCCCCACCTGAGCAGCTTCCAGACGATGTTGCTTGTGAACGCCTAGAGGCATTTCATC
 ATCGAGGCG

>RXN00528-downstream
 TAAAATTAGGCTAAAAATTTGGG

>RXN00606-upstream
 TGCGGTGGCGATTGCTGCGACCCAAGCTGGCACCACCAGCCTCGATGGTATTTTGCACTC
 TGATTTCTGGCGGAGAAGCCA

>RXN00606
 GTGCTCACGGGTGTTATTGCGGTGCTGATTGCAATGTCCGCGTTCACTAAGTCCGCACAG
 TTCCCGTTCCACTTCTGGCTGCCTGAGGCGATGGCTGCGGCCACCCCAGTGTCGGCGTTT
 CTGCACGCTGCGGCCGTGGTCAAGGCGGGTATTTACCTGTTGCTGCGCTTTAGCATTGTG
 TTCCATGATGTTGCGGTCTGGAATTGGTTGCTGATTATCGTCGGCATGGGTACGGCCATC
 ATGTCCGGCGTATTTGCGGTGTCAGAAGACCGATCTGAAGAAGCTCACGGCATATTCCACG
 GTGTGCGATTTGGGTGGATCGTAGCGACCATCGGCGTGGGCACTCCTTTCGCGCTCGGC
 GCTGCCATTGTGCACACGCTCAGCCACGCGCTGTTAAGTCCTCGTTGTTTCATGCTCATT
 GGCGTGATTGATCACCAGACTGGCACGCGCGATATTTCGTCGCTCGGTTTCCCTGGTCAAG
 AAGATTCCGCTTACGTTTGTGCTGTATTATAGGTGCGTTGTGATGGCATCGGTTCCG
 CCGTTGCTCGGCTTCGTGTCCAAAGAAGGCATGATCACAGCGTTTCATGGACGCCCCATC
 GGCAACTCCTATGTTGTATTACTGCTGGTTCGGCGCAGCAATCGGCGCGGTCTTAACCTTC
 ACATACTCCGCGAAACTCGTGCTCGGCGCATTCGTCGACGGCCACGCGACATGTCACAC
 GTCAAGGAAGCCCCGCTCTCCCTCTGGCTTCCGGCCGCCCCGCTGCTGGACTTATGTCTCTG
 CCACTAGTCCTAGTACTTTCGCTTTTCGACGCCCCCGTCTCCGCCGACGCCACCTCCGCC
 GCGGGGGAAGCGGCGCACATGCACCTGGCATTGTGGCACGGCATCAACACCCCCTGTTG
 ATTTCTTTGGGTGTGCTGGTGGCCGGAATCCTTGGTGTGCTGTTCCGCAAAGAGCTGTGG
 AAAATCGCCGAGACCAAGCCCTTTCCCATCGCCACAGGCAACGACATCCTATCGATGCTG
 GTTTACCGAGGCAACTTGTGTTGGTAAATTCTTCGGTTCGATGGCTGATTTCGATGAGCCA
 CGCAGGCACTTGGTCAGCCTCATCGTGCTGCTCTGGGCGCTGGCTGCTTTTGCCACCATT
 CACCCCTCGGTTACGTTGCACCAAAGCAACCGGAATTGATCGTTGGATCGACCTCATT
 CCGCTTGCCATCATCGCGCTATCTGTCTTCGGCCTGCTCACCACCCGAAACCGCCTCAGC
 GCAGCCGTGCTTGTGGGTACCGTTGGTGTGGGTGTTTCCCTCCAGATGCTACTTCTGGGC
 GCTCCCGATGTTGCACTTACCCAGTTTCTGGTAGAAGGCCTCGTCGTGGTAATCATCATG
 ATGGTTGTCCGGCACCAAGCCTGCCAACTTCAAGCGCATCAAGCCCAGCAGAAGGCGCAGC
 ACCGTTCTTGTGCGCGTCTTGTGCTTCGCCGCAATTCATGGCGGTGTGGGGATTGCTT
 GGCCGTCACGAACGTTCTGAGCTGGCCATGTGGTACCTCAACCAAGGTCCAGAGATCACC
 TCTGGCGCAACGTTGGTGAACACCATCCTCGTGGAATTCCGTGCACTGGATACGTTGGGC
 GAGCTCTCCGTGCTTGGCATGGCAGCTGTCTGTCATCGGTGCGATGGTGGCTTCCATGCCT
 CGTCATCCGTTTGGCAAGGGCACCCACCCTCGCCCCCTTTGGCCAATCACAGTTGAACTCC
 ATTCCGCTGCGCATGCTGCTTAAGGTGCTGGTTCCAGCGCTATGCTTCTTGAGCTTCATG
 GTGTTTCATGCGTGGACACAATGATCCGGGAGGCGGTTTCATCGCAGCCCTAATTGCCGGT
 GGCGCGCTGATGCTCCTGTACCTGTCCAAGGCCAAAGATGGCCGATTTTCCGCCCGAAT
 GTTCCCTTTCATTCTCACTGGTGCGGGCATCTTGATGGCAGTGTCTCGGGCGTACTGGGA
 CTCACCCACGGTTCTTTCCTGTACGCCATCCACTTCAACTTCGTAGGCCAGCACTGGACC
 ACCTCGATGATCTTCGACCTCGGCGTGTACCTGGCCGTGTTGGGCATGGTGTCCATGGCA
 ATCAACGGCCTGGGCGGATACCTGCGCCCAGGTACCGACAATGCAGATCTGGACTACGCC

CGCCGAAGTGGCCCACTGCCAGCAACGCCAACGGTTGAACCCGAACCAGAAGGCGATGAA
GACTGGCCCGAACCCATCAACCCCGCAGGCGATAACAAAGAGGAGGCAAACCGA

>RXN00606-downstream
TGATTCTCGCACTGACAGTCGCG

>RXN00635-upstream
CTGGCAGGCGGGCGAAGCGTGGCAACAACCTGGAATTTAAGAGCACAATTGAAGTCGCACC
AAGTTAGGCAACACAATAGCCATAACGTTGAGGAGTTCAG

>RXN00635
ATGGCACACAGCTACGCAGAACAATTAATTGACACTTTGGAAGCTCAAGGTGTGAAGCGA
ATTTATGGTTTGGTGGGTGACAGCCTTAATCCGATCGTGGATGCTGTCCGCCAATCAGAT
ATTGAGTGGGTGCACGTTGAAATGAGGAAGCGGCGGCGTTTGCAGCCGGTGCAGGAATCG
TTGATCACTGGGGAGCTGGCAGTATGTGCTGCTTCTTGTGGTCTTGGAAACACACACCTG
ATTCAGGGTCTTTATGATTCGCATCGAAATGGTGCGAAGGTGTTGGCCATCGCTAGCCAT
ATTCAGGATGCCAGATTGGTTCGACGTTCTTCCAGGAAACGCATCCGGAGATTTTGTGTT
AAGGAATGCTCTGGTTACTGCGAGATGGTGAATGGTGGTGAGCAGGGTGAACGCATTTTG
CATCACGCGATTGAGTCCACCATGGCGGGTAAAGGTGTGTGGTGGTAGTGATTCTTGGT
GATATCGCTAAGGAAGACGCAGGTGACGGTACTTATTCCAATTCCACTATTTCTTCTGGC
ACTCCTGTGGTGTTCCTGGATCCTACTGAGGCTGCAGCGCTGGTGGAGGCGATTAAACAAC
GCTAAGTCTGTCACTTTGTTCTGCGGTGCGGGCGTGAAGAATGCTCGCGCGCAGGTGTTG
GAGTTGGCGGAGAAGATTAAATCACCGATCGGGCATGCGCTGGGTGGTAAGCAGTACATC
CAGCATGAGAATCCGTTTGAGGTGCGCATGTCTGGCCTGCTTGGTTACGGCGCCTGCGTG
GATCGCTCCAATGAGGCGGATCTGCTGATTCTATTGGGTACGGATTTCCCTTATTCTGAT
TTCCTTCCCTAAAGACAACGTTGCCAGGTGGATATCAACGGTGCACATTTGGTTCGACGT
ACCACGGTGAAGTATCCGGTGACCGGTGATGTTGCTGCAACAATCGAAAAATATTTTGCCT
CATGTGAAGGAAAAACAGATCGTTCCTTCCCTGATCGGATGCTCAAGGCACACGAGCGT
AAGTTGAGCTCGGTGGTAGAGACGTACACACATAACGTCGAGAAGCATGTGCCTATTAC
CCTGAATACGTTGCCTCTATTTTGAACGAGCTGGCGGATTAAGGATGCGGTGTTTACTGTG
GATACCGGCATGTGCAATGTGTGGCATGCGAGGTACATCGAGAATCCGGAGGGAACGCGC
GACTTTGTGGGTTTCAATCCGCCACGGCACGATGGCTAATGCGTTGCCTCATGCGATTGGT
GCGCAAAGTGTGATCGAAACCGCCAGGTGATCGCGATGTGTGGCGATGGTGGTTTGGGC
ATGCTGCTGGGTGAGCTTCTGACCGTTAAGCTGCACCAACTTCCGCTGAAGGCTGTGGTG
TTTAACAACAGTTCTTTGGGCATGGTGAAGTTGGAGATGCTCGTGGAGGGACAGCCAGAA
TTTGGTACTGACCATGAGGAAGTGAATTTGCGAGAGATTGCGGCGGCTGCGGGTATCAA
TCGGTACGCATCACCGATCCGAAGAAAGTTGCGGAGCAGCTAGCTGAGGCATTGGCATAT
CCTGGACCTGTACTGATCGATATCGTCACGGATCCTAATGCGCTGTGATCCCACCAACC
ATCACGTGGGAACAGGTGATGGGATTGAGCAAGGCGGCCACCCGAACCGTCTTTGGTGGA
GGAGTAGGAGCGATGATCGATCTGGCCCGTTGCAACATAAGGAATATTCCTACTCCA

>RXN00635-downstream
TGATGATTGATACACCTGCTGTT

>RXN00684-upstream
AGTCACACCTAAAAGTGATAGCCATCACGAATCTTTAGGAAAAGTGATTCAAACCTTCACT
GTGATCGGCTTCGGCCACACACAAGTGTGAGGAGATGACA

>RXN00684
ATGACTTCCCAGACTTCCCAACAATCCACCTCAACCGGTGGATGCCCATTCGGGCACACA
TCAGAGTCCACCGCATCACGGCTACCAGCCTTTTCGATATGCACAACCCGTTTCCTGCA
TATAAAGAAGTCCGTCAGGAAGAGCCAGTGATGTTTCGATGAGCGCATCGGCTACTGGGTG
GTAACCAATATGACGACATCAAAACCACCTTTGATGACTGGGAAACATTCTCCTCTGAA
AATGCACAAGCCCCAGTCCGCAAGCGTGGACCTCAGGCAACCCAAATCATGACCGATGGC
GGCTTCACTGCATACTCCGATTATCAGCTCGTATTCCACCAGAGCACACCCGCATCCGC
GCAATCGCACAAAAGGCCTTCACGCCACGCCGCTATAAAGCACTCGAACCAGATATCCGA
GCAATGGTGAATTGATCGTGTGGAGAAAATGTTGGCGAATGATCAACACGTTCGGCGATATG
GTGTCAGATCTTGCTACGACATTCCAACCATCACGATCCTGACGCTGATCGGTGCAGAT
ATTTTCATGGTGGTCACCTACAAGCGGTGGTCAGATTTCCCGTTCGGCCATGACCTGGGGC
GATCTTAGTGATGAAGAGCAGATCCCACACGCACACAATTTGGTTGAGTACTGGCAGGAA
TGCCAACGCATGGTAGCTGATGCACATGCACACGGTGGCGACAACCTCACCGCTGATCTA

GTGCGAGCACAGCAAGAGGGTCAAGAAATCACCGATCATGAGATTGCTTCTTTGCTGTAC
 TCCCTGCTTTTTTGC GG GGCACGAAACAACCACCACGTTGATCTCCAATTGTTTCCGAGTT
 CTCCTCGATCATCCAGAGCAGTGGCAAGCCATTCTAGAGAATCCAAAAGTATTCCTGCG
 GCAGTGGATGAGGTCTTGCGGTACTCCGGCTCGATCGTGGGGTGGCGTCGAAAAGCATT
 AAAGACACCGAGATCGGCGGCGTTGCCATTAAGGAAGGCGATGGTGTCTGCTGCTCATG
 GGTTCGCGCAACCGCGATGAAGCTCGCTTTGAAAATGGCGAGGAATTCGATATCAGCCGC
 GCTAATGCGCGCAGACCTGTCTTTTGGTTTCCGCATCCACTATTGCCTAGGAAACATG
 CTGGCCAAAGTTCAAGCCAAGATCTGTCTCGAGGAAGTCACCAGGCTTGTTCCTCCCTG
 CACTTGGTTGCGGACAAAGCTATCGGGTTCGGGAGAACCTCTCCTTCCGCGTCCCCACT
 TCTGTTCCCGTGACTTGGAACGCT

>RXN00684-downstream
 TAACGCTTTATTAAATAAGGAGA

>RXN00705-upstream
 GTTCTGGAACAAGCACTGATGATTGGGCCGAGTCCACGTTGGTTAATGCTCTGCATCTTC
 AAGAAATCATCGCTAAAAATTACCCGGAGGCTAAATAAAA

>RXN00705
 ATGGGTGCGATTACCCAAAACCTTGCAGGTCCACGCGTTGTGTCCACTGACGAGCAAGTT
 TTTGTTAACACTCGTCCGGATACTGTTGCGGTGGAGGAGCCTCTAGAAATTCGGGTTAAT
 GGCAGTGCCTTACCACCACTATGCGCACGCCCGGCCATGATATTGAGTTGGTGCATGGC
 CTCCTCTTGTGAGAAGGTCTGATCACGGATGCTTCTGAGGTTTTTACCGCCCGCTATTGT
 GCAGGAGCTGTTGGCCAGATAATCAAATACGTACAACGTCTTAGAACTTGATGTCATC
 CCCAAGACAATCCGGCCCGGGATCCCGTCCAGAATCCCTCCCATAATCCCGAAGGCAGC
 CAACACGAAGCACTCCACATCCCAACTTTCCAACCGGTACGCGAACTAAACCTCGTGGCA
 GCCCAACGCAATGTGCTGACTACGTCTGCTTGTGGTGTGTTGTGGCAGCAGCTCTATTGAG
 CAGTTGATGAACAAGAAGGGCTGGCCCATACGCCGATTACACCGGATCCTCGGATGATT
 GTGTCGTTGCCAGATAAGTTGAAGTCGAAGCAGAAGATTTTCGACAAAACCTGGTGGGGTT
 CATGCTGCTGGTTTGGCCACGCTTGATGGTGAGATGTTGATTATTCGAGAGGATGTCGGT
 CGGCATAACGCAGCTGACAAAGTTATAGGAAACATGCTGATGGCGGGAAAGCTCCCTTG
 GAAAACACTATTTTGGTGATGAGTTCTAGGGCGTCTTTTGGAGCTTGTCAAAAGGCTGCC
 ATGGCTGGAATTTCCGGTGTAATCGCTGTTGGTGCTGCAACATCGCTGGCAATCGAGGCG
 GCGCAGGATTACAGTATTTTCTTGCTGGTTTTGTTCCGGGGCAACAAGTTTAACCACTAT
 GCGGGCGAGCTCGGA

>RXN00705-downstream
 TAATGCCAGAACAGGTAGAACAG

>RXN00799-upstream
 TTGTCTAACCCCGTATAGGTGAGAAATGTTGGACAAGTGCTGTTTTTGTGGGGGAAAT
 CTGACTACGATGGTAAGAAATAAGGAAAGAGATTACCATT

>RXN00799
 ATGTCTCAAGAGCGGCCTCAAATCGGCTCCCGCCTCTCTCGTGTCATTGAACAAGACGGC
 CTACAATTCCGCGATCTCGACGGCGACGGCGTACTTGACCTTATGAAGATTGGCGTCTA
 ACCCCAGCAGAGCGTGCCGCTGACCTGGTGAAACGTATGAATGTGGAAGAAAAAGCGGGC
 CTGATGATCATCGGTTGCGCACTACCCCGGATACTCGCCTTTGGCGCCGAGAGTGAAGGC
 AAAGACGCGGAAAAGTGCGAGCCTTTGCTGAACCCTGTGATATGTGGCGTGAGGATAAC
 CCGATCACGGGTGTTTCTTTCACCGAGCCTGTGCTGGCAACTTCTTCCACTGAAAATGCC
 ATTAACCTGCGCAATCAGCGTTACTTAATTGTTCTGACAACTGCCAGCTCGTGGGCTT
 GCTACTTGGACCAATGCTGTTTCAGGAAGTCGCGGAGCGATCCCGTTTGGGTATTCTGTT
 GCGTTTGCCTCGAATCCTCGTAACCACGTGCGGCTCGTTGCGCAGTTCCGGTGTAACGAG
 TCCGCGGGTGTGTTCTCTGAGTGGCCTGGCGAGCTGGGTCTTGCTGCGCTTCGCGATGCT
 GAACTGATGGAGACTTTCGGTACCGAGGCTGCTAAAGAATGGCGTGCCGGTGGTGTGCAC
 AAGCTGTACGGTTACATGGCTGACCTCGCTTCTGAGCCTCGTTGGTCCCGCTTCAACGGT
 ACTTTTGGTGAGGATCCGGAGTTGATCTCTGATTACATCGCTGCTGTTGTGCGTGGTTTG
 CAGGGCCCTGAGCTGTCCAAGAATTCCGTGTGACCAACATTAAGCACTTCCCAGGTGGC
 GCGGTGCGCCTCGACGGCCACGATCCTCACTTCCACTGGGGTCAGACCAATGAGTACCCA
 ACCGAAGATGCGCTGGGCAAGTACCATCTGCCTCCTTTCCAGGCAGCTATCGACGCTGGC
 TGCGCCTCGATCATGCCTTACTACGCACGGCCAATGAACAACCTCCGCCAACCAGCTCGAT

CAGCAGCTGTGGCAAAACCCGACCACGCAGTTCTGAAGAGGTTGCGTTTGCCTACAACCGC
 ACCTTCATTACAGGATTTGCTTCGCGACGCCATGGGCCACCGTGGGTACGTCAACTCCGAC
 TCCGGCGTCATCGACGCCATGATGTGGGGCGTGGAGGAACCTCAGCGAGCCAGAACGCTTC
 GCCGCAGCAGTGCCTGCAGGCACCGACATTTTCTCCGACATGGCTAACCCACGTCGACTG
 CTCGAAGCAGTTGCTGAGGGACACCTTGATGAGTCAGAGCTGAATCAGCCAGTCCAGCGA
 CTCCTGGAGGAAATCTTCCAGCTTGGTCTGTTTGAGAACCCATATGTCTCTGAAGATGAA
 GCAGAAAAGATCATTGGTGCGCCAGAGGTTTCTGCATTGGGCAACAAAGCACAGCTTGAT
 TCCGTACCTTGCTGCGTAACAACCCCATCCGTGCTGCCACTGGATCCTGCAGCAAGCCT
 GAAGATCTACCCATTGGTTACTGGCCGTACCAAGATCGACGAGGTTCAACTACAGCTGGA
 AGCAGCCATTGCGCGAGAATCCCAGGGGTAACCTTGGTGTCTCCGAGTCAGAAGCAGA
 TCTTGCAATCGTGTGGGCTCGCCC

>RXN00799-downstream
 TGAAATTGCACTGTTTGAAGATG

>RXN00868-upstream
 CGATGACCCAGCGCACGCCTGGGTTTCGAGATACATGGACCGGGCAAGCATTGATGATCG
 CTTGCCATATGAGAACGCAACAAGGAGGGATAAAATTTT

>RXN00868
 ATGGCTGAAACGAAGAGAATGACAGTTAGCCAGGCACTGGTTGAATTCCTTGGTCACCAG
 TGGACTGTGACGGCGATATCCGCGAGCGCACCATTTCCAGGCATGTTCCGAATTTTCGGA
 CACGGAAACGTTGCTGGCATTGGCCAGGCACTCAAGCAGTACAACGTTGAACAACCTGAG
 CTCATGCCGTACTACCAGGCTCGTAATGAGCAGGCGATGGTGCACCAGTCTGTTGGATAT
 GCAGCATGCACCGCGTCTGTTGGCACATACGCATCTGCCGCATCTGTTGGACCCGGCGCG
 ACCAACCTGTTAACCGGTGCGGCTCTTGCTACCACCAACCGTTTGCCAGCGTTGCTGCTG
 CCTAGTGATACTTTTGCCACCCGCGTGGCGGATCCAGTGTTGCAGCAGTTGGAGCAGCCA
 TGGGATATCGGGCTGACGGTTAATGATGCTTTCCGCCCTGTGTCTAAGTTCTTTGATCGG
 GTGCAGCGCCCGGAGCAGTTGTTCTCTATTGCGTTGGCTGCGATGCGTGTGTTGACTGAT
 CCCGCAGAAACCGGTGCGGTCACCATTGCGCTTCCAGAAGATGTGCAGGCTGAAATGCTC
 GATGTGCCGTTGGAGTTCTTGCCAGGATCGTGAGTGGCACATTAGGCGCCACGTCACAG
 CGTGCTGCGTTGGCTCGTGCGATTGAAGTCATCAAAAACGCTAAGAATCCGATGATCATT
 GCTGGTGGCGGAGTGTTGTACTCCGATGCGGAAACGCAGCTGCAGGCACTTGTGGAGCAG
 ACTGGCATTCAGTGGGTACCTCCCAAGCTGGTGGTGGCGTGTGGCGTGGGATCATGCA
 CAAAACCTTAGGTGGTGTGGGTGCCACCGGAACGTTGGCTGCCAACCAGCATTGCGGGT
 GCTGATGTGATCATCGGTATCGGTACTCGTTACAGCGATTTACCACCGCATCTCGCACT
 GCGTTCCAAAACCTGATGTCACCTTCATCAACATCAATGTTGCTTCCTTCGATGCTTAC
 AAGCATGGCACTCAGTTGCCTGTGATTGCAGATGCACGCGAGGCAATTGTGGAGCTTGCT
 GAAGCCCTGCAGGGATTACCGTGGCAGAGGATTACGCGCAGCGCATCGCGAAGGAAAAG
 GCTGCGTGGGACGCAGAGTAGATAAGTCTTTTGCCCCCTCCGGTCTTGCGCTGCCTGGA
 CAGCCGGAGATCATCGGCGCGGTGCAGGCGTCGACAAGCGAAAAAGACGTCATTGTGCAG
 GCCGCTGGATCCTTGCCCTGGTGACCTGCACAAGCTGTGGCGTGTGCGCGATGCGCTGGGC
 TACCACGTGGAATATGCGTTCTCGTGATGGGCTATGAAATCGCGGGCGGTATCGGCGCG
 AAGCGTGGACTTGATGCCGCGAGGCGATGACGCGACGTGGTGATCATGGTTGGTGATGGG
 TCCTACCTCATGCTCAACACTGAGCTGGTCACGCGCGTGGCAGAAGGTATCAAGGTGATT
 GTGGTGCTCATCAAAAACACGTTTATGCCTCCATCGGCCACCTGTCTGAAACTGTCGGT
 TCGCAGCGTTTTGGTACTTGGTACCGCGAATATGACGCTGAGGCGAAAAACTTCCAGGGC
 GAGCAGATTCTGCCTGTTGACCTGGCGATGAATGCACGCAGCTACGGCATGGATGTCATT
 GAAGTGAACCAAGCGGAATGCGATCGAGGATCTCAAAGCAGCGATGGCAACCGCGAAG
 GCTTCGGAGAAATCCACCTTCATCCACATCAACAGCGATCCGTTGATCTACGCACCAGAC
 GGTGCTGGTTGGTGGGACGTGCCGGTGTGCGAGACGTCCACTCTGGATAGCACCAACGCG
 GCTCGTGAAGATTACCTGAAAAACCAAGCCCTCCAGCGTCCGCTGCTCGGC

>RXN00868-downstream
 TAAACCAAGTTGGCTAAACCAAAA

>RXN00871-upstream
 GGGAAAAGGCGATCACCAGCCGTTGGCTCGACCCAGCAACCCACGGTGGCATTAACTCG
 GTTTCCACAGAACGATTAATTGAAGGAGAGCACAGGACT

>RXN00871

ATGCGTTGGTTCCATAAGAAGGGCGAACTGGCCCGAGATGGTTGGCAAAGCGTTGTCGAT
 GCCACCACCCAGGTTGGGAATATACCGGCATCCGCATTGCCGAAGTGGGCAGTGGTGAA
 TCGCTTGAAGTGAATGACACTGGTGTGGAACGCATCTTCATTCCACTTCAGGGCAGCTTC
 GATGTTGCCCACCATGGTCAGGTGACCCATCTTCACGGAAGAAAGTCAGTCTTTGATGGA
 CCAACCGATGTGCTCTACCTCCCCACTGGACAAACAGCAACGCTCAGTGGTCAGGGACGA
 GTCGCCGTGGCGGAAGCTCCCACTCAGGAACCAAGGAGTGGAAAGTACATCGCTCCAGCA
 GAAACTCCTGTGGAGTTGCGTGGAGCTGGCCGCTCGAGCCGACAAGTCCACAACCTTTGGC
 ACCCGGAAGCTCTCGATGCTGCTCGACTAATCGTGTGTGAAGTAATCACCCAGGTGAA
 AACTGGAGCTCTTACCCTCCACACAAGCATGATGAGCACATCCCAGGACACGAGTCCAAG
 CTGGAGGAAATCTACTACTTCGAAAGCGCCCCATCGCGAGTTGGTGGCAGGGCCGAAGCA
 GCAGAAGGAGCTTTTCGGAATGTTTTCCACCTACTCCTCACCAGCGGGGAGATCGATATC
 AACGCCATGGTGTACAGCGGCATATCGCGCTAGTTTCTTTTCGGATACCACGGCCCTGCC
 GTGGCAGCACCTGGCTATGACTTGTACTACCTCAACGTCATGGCAGGACCTGATCCGGAG
 AGAATCTGGCTGATTAACGATGACCCAGCGCACGCCTGGGTTTCGAGATACATGGACCGGG
 CAAGCATTTGATGATCGCTTGCCATATGAGAACGCAAACAAGGAGGGA

>RXN00871-downstream
 TAAAATTTTCATGGCTGAAACGAA

>RXN00872-upstream
 GAAATGTATTGCTTTGTCAGGACAATGTGTTATTGTTCATGACATGCGATCGTGAGGGTGC
 CCACATTCCATCAAAAATGAGTGAAGGGTTGCATCGCCAC

>RXN00872
 ATGACTAACTTGACGAGCACTCACGAAGTCCTAGCTATCGGCCGCTTGGGCGTAGATATT
 TACCCACTTCAAAGTGGAGTAGGACTGGCCGATGTTCAATCTTTTCGGCAAGTACCTCGGC
 GGAAGCGCAGCAAACGTTTCTGTTGCAGCCGCCGCGCATGGACACAATTCCGCACGTGTG
 TCCCGTGTGGGAAATGATCCTTTTCGGCGAGTACCTGCTTGCTGAGCTGGAGCGTTTGGGC
 GTGGACAACCAAGTACGTTGCCACCGATCAGACTTTTAAGACCCAGTGACCTTCTGTGAA
 ATTTTCCCACCGGATGATTTCCCACTGTACTTCTACCGCGAACCAGGCTCCGGATCTC
 AATATTGAATCCGCAGACGTCAGCCTGGACGATGTGCGCGAAGCCGATATTTTGTGGTTC
 ACACTCACTGGTTTTAGTGAAGAGCCAAGCCGCGGCACACACCGCGAGATCTTGACTACT
 CGTGCGAACCCTCGCCACACCATCTTTGATCTGGACTACCGACCAATGTTCTGGGAATCC
 CCAGAAGAGGCCACCAAGCAGGCGGAATGGGCGTTGCAGCATTCACGGTGGCGGTTGGC
 AACAAGGAAGAATGCGAAATCGCAGTGGGCGAGACCGAGCCAGAGCGCGCGGGCCGAGCA
 CTGTTGGAACGCGGTGTGGAGTTGGCCATCGTCAAGCAGGGACCTAAGGGTGTCTATGGCG
 ATGACCAAGGACGAAACCGTAGAAGTTCCTCCGTTCTTCGTCGATGTCATCAACGGTCTT
 GGTGCCGGCGATGCATTCGGCGGCGCGCTGTGCCACGGTCTGCTCTCTGAATGGCCGTTG
 GAAAAGGTTCTCCGTTTTGCCAACACCGCGGGTGCCTTGTGGCGTCCCGTCTTGAATGC
 TCCACCGCAATGCCTACTACCGATGAGGTGGAAGCCTCCCTCAACCAGAAAGTC

>RXN00872-downstream
 TGATATGACTCCTCCGATTATCT

>RXN00879-upstream
 CACCCCAAAGCCCAATCCAAAAGATGTATTTTCTAACAACTTACCCTCACGCTACAAAT
 ATGCTGTGCCACACGCTATTAGTGGCATAATGTTGTGTT

>RXN00879
 GTGACTGCTCGCAGATTTTTGAATGAACTCGCCGATCTCTACGGCGTAGCAACTTCCTAC
 ACTGATTACAAAGGTGCCCATATTGAGGTGAGCGATGACACATTAGTGAAAAATCCTGCGT
 GCTCTGGGTGTGAATTTAGATACAAGCAACCTCCCCAACGATGACGCTATCCAACGCCAA
 ATTGCCCTCTTCCATGATCGAGAGTTCACTCGCCCACTGCCTCCATCGGTGGTTGCAGTT
 GAAGGTGATGAACTAGTTTTCCCGGTGCATGTGCACGACGGTTCCCTGCGATGTCCAC
 ATCGAATTGGAAGACGGCACGCAGCGGGATGTTTCTCAGGTGGAAAACCTGGACAGCGCCA
 CGGGAAATTGATGGGATTAGGTGGGGCGAGGCATCGTTTAAGATTCTTGGTGATCTCCCC
 TTGGGTTGGCACAAGCTTCACCTTAAATCCAATGAACGCTCAGCTGAGTGCGGTTTGATC
 ATCACCCCGGCTCGTCTGTCTACTGCTGATAAGTATCTTGATTCCCTCGCAGTGGTGTG
 ATGGCGCAGATCTACTCTGTGCGTTCCACGTTGTGCTGGGGCATGGGTGATTTCAATGAT
 TTAGGAACTTGGCAAGTGTGGTTGCCAGGATGGAGCAGACTTCCTGCTCATCAACCC
 ATGCACGCTGCAGAGCCGCTGCCTCTACTGAGGACTCTCCTTATCTGCCACAACCAGG

CGCTTTATCAACCCGATCTACATTCCGGGTAGAAGATATTCCGGAGTTTAATCAGCTTGAG
ATTGATCTACGCGATGATATCGCAGAGATGGCTGCGGAATTCCGCGAACGCAATCTGACC
TCAGACATCATTGAGCGCAATGACGTCTACGCTGCAAAGCTTCAAGTGCTGCGCGCCATT
TTTGAAATGCCTCGTTCCAGCGAACGTGAAGCCAACCTTTGTCTCCTTCGTGCAACGGGAA
GGCCAAGGTCTTATTGATTTTCGCCACCTGGTGCGCGGACCGCGAAACTGCACAGTCTGAA
TCTGTCCACGGAAGTGAAGCAGACCGCGATGAGCTGACCATGTTCTACATGTGGTTGCAG
TGGCTATGTGATGAGCAGCTGGCGGCAGCTCAAAGCGCGCTGTGATGCCGGAATGTCTG
ATCGGCATCATGGCAGACCTGGCAGTTGGTGTGCATCCAGGTGGTGGTGTGATGCCGAGAAC
CTCAGCCACGTACTTGCTCCGGATGCGTCAGTGGGCGCCCCACCAGATGGATACAACCAG
CAGGGCCAAGACTGGTCCCAGCCACCATGGCATCCAGTGGTCTTGACAGAGGAAGGCTAC
ATTCCGTGGCGTAATCTGCTGCGCACTGTGCTGCGTCACTCCGGCGGAATCCGCGTGGAC
CACGTTCTTGGTTTGTTCAGGCTCTTTGTCTGTCACGCATGCAATCCCCTGCTACGGGC
ACCTATATCCGCTTCGACCATAATGCGTTGGTAGGCATTCTAGCCCTAGAAGCAGAACTC
GCAGGCGCCGTTGTCAATTGGTGAAGATCTGGGAACGTTTGAGCCTTGGGTACAAGATGCA
TTGGCTCAGCGTGGCATCATGGGCACCTCGATCCTATGGTTTCGAGCATTCCCCAAGCCAG
CCGGGTCCCTCGCCGCCAGGAAGAGTATCGTCCGCTGGCCTTGACCACTGTGACCACTCAT
GATCTCCCTCCGACTGCTGGTTATTTGGAGGGCGAGCACATTGCTCTTCGTGAGCGATTG
GGGGTGCTCAACACTGATCCTGCTGCAGAACTCGCTGAGGATCTGCAGTGGCAAGCGGAG
ATCCTTGATGTGCGCAGCATCTGCCAACGCATTGCCAGCCCGGAATACGTGGGACTCGAA
CGCGATCAGCGCGGTGAGTTGGCTGAGCTGTTGGAAGGCCTGCACACTTTCGTTGCGAAA
ACCCCTTCAGCACTGACCTGTGTCTGCTTGGTAGACATGGTCCGTTGAAAAGCGGGCACAG
AATCAGCCGGGCACAACGAGGGATATGTATCCCAACTGGTGTATCCCACTGTGTGACAGC
GAAGGCAACTCCGTGCTCATTGAATCGCTGCGTGAAAATGAGCTGTATCACCGTGTGGCA
AAGGCAAGCAAGCGAGAT

>RXN00879-downstream
TAGGTCCGCTTCAGTTGTGGTGG

>RXN00999-upstream
CCTCCTGTGACCTGGTAAATCGCCACTACCCCCAAATGGTCACACCTTTTAGGCCGATT
TTGCTGACACCGGGCTATGCCGTCAAGTACGATCAATAAC

>RXN00999
ATGACTAATGGAGATAATCTCGCACAGATCGGCGTTGTAGGCCTAGCAGTAATGGGCTCA
AACCTCGCCCGCAACTTCGCCCCGCAACGGCAACACTGTGCTGTCTACAACCGCAGCACT
GACAAAACCGACAAGCTCATCGCCGATCAGCGCTCCGAAGGCAACTTCATCCCTTCTGCA
ACCGTCGAAGAGTTCTGATGATCCCTGGAAAAGCCACGCGCGCCATCATCATGGTTTCAG
GCTGGTAACGCCACCGACGAGTCATCAACCAGCTGGCAGATGCCATGGACGAAGGCGAC
ATCATCATCGACGGCGGCAACGCCCTCTACACCGACACCATTTCGTGCGGAGAAGGAAATC
TCCGCACGCGGTCTCCACTTCGTGCGGTGCTGGTATCTCCGGCGGGCAAGAAGGCGCACTC
AACGGCCCATCCATCATGCCTGGTGGGCCAGCAAAGTCTACGAGTCCCTCGGACCACTG
CTTGAGTCCACTCGCTGCCAACGTTGACGGCACCCCATGTGTACCCACATCGGCCAGAC
GGCGCCGGCCACTTCGTCAAGATGGTCCACAACGGCATCGAGTACGCCGACATGCAGGTC
ATCGGCGAGGCATACCACTTCTCCGCTACGCAGCAGGCATGCAGCCAGCTGAAATCGCT
GAGGTTTTCAAGGAATGGAACGCAGGCGACCTGGATTCTACCTCATCGAAATCACCGCA
GAGGTTCTCTCCAGGTGGATGCTGAAACCGCAAGCCACTAATCGACGTCATCGTTGAC
GCTGCAGGTGAGAAGGGCACCGGACGTTGGACCGTCAAGGCTGCTCTTGATCTGGGTATT
GCTACCACCGGCATCGGCGAAGCTGTTTTCGCACGTGCACTCTCCGGCGCAACCAGCCAG
CGCGCTGCAGCACAGGGCAACCTACCTGCAGGTGTCTCACCAGTCTGGAAGCACTTGGC
GTGGACAAGGCACAGTTTCGTGGAAGACGTTCCGCGTGCATGTACGCATCCAAGCTTGT
GCTTACGCACAGGGCTTCGACGAGATCAAGGCTGGCTCCGACGAGAACAACCTGGGACGTT
GACCTCGCGACCTCGCTACCATCTGGCGCGGGCTGCATCATTTCGCGCTAAGTTCTCCT
AACCGCATCGTCGAAGCATACGATGCAAACGCTGAACCTGAGTCCCTGCTGCTCGATCCT
TACTTCAAGAGCGAGCTCGGCGACCTCATCGATTTCATGGCGTGGCGTATTGTACCGGCC
ACCCAGCTTGGCCTGCCAATCCAGTGTTCGCTTCTCCTGTCTACTACGACAGCCTG
CGTGCAGAGCGTCTGCCAGCAGCCCTGATCCAAGGACAGCGGCACTTCTTCGGTGGCGAC
ACCTACAAGCGCATCGACAAGGATGGCTCCTTCCACACCGAGTGGTCCGGCGACCGCTCC
GAGGTTGAAGCT

>RXN00999-downstream
TAAAGGCTCTCCTTTTAACACAA

>RXN01025-upstream

GGGCAGCAGCGGCAGGTTTCCAGGAGGTTTCCATGCGGGTGGCTTGGGACATGGGCTAAC
CTGAGACGGTTAAATATCGTTTTTCGAAAGGTGGGTTTTCGC

>RXN01025

GTGGTTTCTGTAAAGCGTGATGGGTGCAGGTTCTTGGGGAACACGTTGGCCAAGGTCTTC
TCTGATGCTGGCAACGCTGTGACGTTGTGGGCGAGGCGGGAAGAGTTGGCAAGCACCATC
CGTGACAGCCATGAAAAACCGTGATTACCTTCCGGGGATTACGTTGCCGGAGTCGCTGCAG
GTCACATCATCGGCAACGGAGGCTTTAGAGGGCGCAGCCATTGTGGTGTGGCGATTCTCCT
TCGCAGGCGTTGCGTGGCAATTTGGCGGAGTGGAAGAGACGATCCCGCAGGATGCGACC
TTGGTGTCTTTGGCTAAAGGTATTGAAAAGGGCACGCACCTGCGGATGAGTGAAGTGATC
GCGGAGGTGACGGAAGCGGATCCTTCACGCATCGCGGTGTTGTGCGGGGCCAAACCTTGCT
CGTGAGATCGCGGAGGGGCGAGCTGACGCTACGGTGATTGCTTGCCCTGATGAAAACCGA
GCGAAACTTGTGCAGGCTGCAGTGGCTGCGCCGTATTTCCGCCCCGTACACCAACACTGAT
GTGGTGGGCACTGAAATCGGTGGTGGTGTGTAAGAACGTCATCGCGCTGGCCTGTGGTATT
TCCCATGGTTACGGCCTGGGTGAGAACACCAATGCATCGTTGATTACTCGTGGCCTTGCA
GAGATCGCACGCCTCGGTGCCACATTGGGTGCGGATGCGAAGACTTTTTCTGGCCTTGCG
GGAATGGGCGACTTGGTGGCTACGTGTTTCATCACCGCTGTCGCGTAACCGCAGCTTCGGT
GAGCGTTTGGGTGAGGTTGAATCCCTAGAGAAGGCTCGCGAGGCAACCAATGGTCAGGTT
GCGGAGGGTGTATTCTTCGCGAGTCGATTTTTGATCTTGCCACCAAGCTTGGTGTGGAG
ATGCCGATCACCCAGGCTGTCTACGGTGTGTGCCACCGAGATATGAAAGTAACTGACATG
ATTGTGGCTCTCATGGGCAGGTCTAAGAAGGCTGAG

>RXN01025-downstream

TAGTCTTAGGTTGTAAGCTTCAA

>RXN01048-upstream

AGCTACAGATTTAGCTAGTGTTTTTGTTCCAGAACCCTAAATGAGGTTCTACCCTTAACA
GAGCTTCCCGCAAAAACACCGATTAAACAAGGCTAAATGAT

>RXN01048

ATGACCATCGACCTGCAGCGTTCCACCCAAAACCTCACCCATGAGGAAATCTTCGAGGCA
CACGAGGGCGGAAAGCTCTCCATTAGTTCCACTCGTCCGCTCCGCGACATGCGCGATCTT
TCCCTTGCTTACACCCCTGGTGTGCTCAGGTTTGTGAAGCAATCAAGGAAGATCCAGAG
GTTGCGCGCACCCACACGGGCATTGGAAACACCGTCGCGGTTATTTCCGACGGCACCGCT
GTTCTTGCCCTTGCGGATATCGGACCTCAGGCCTCCCTTCCCGTCATGGAGGGCAAGGCT
CAGCTGTTTAGCTCTTTGCTGGCCTGAAGGCTATCCCTATCGTTTTGGACGTTACAGAT
GTTGACGCTTTGGTTGAGACCATCGCAGCCATCGCGCCTTCTTTCGGTGCTATCAACTTG
GAGGACATCTCCGCTCCTCGTTGCTTCGAGGTGGAGCGCCGCTCATCGAGCGTCTCGAT
ATTCCAGTTATGCACGATGACCAGCACGGCACCGCTGTGGTTATCCTCGCTGCGCTGCGC
AACTCCCTGAAGCTGCTGGATCGCAAGATCGAAGACCTCAAGATTGTTATTTCCGGCGCA
GGCGCAGCGGGCGTTGCAGCTGTAGATATGCTGACCAACGCTGGAGCAACCGACATCGTG
GTTCTTGATTCCCGAGGCATCATCCACGACAGCCGTGAGGATCTTTCCCCAGTTAAGGCT
GCTCTTGACAGAGAAGACCAACCCTCGTGGCATCAGCGGTGGCATCAATGAGGCTTTACC
GGCGCGGACCTGTTCAATTGGCGTGTCCGGCGGCAACATCGGCGAGGACGCTCTCAAACCTC
ATGGCCCCGGAGCCAATCCTGTTACCCCTGGCGAACCCAAACCCAGAGATCGATCCTGAG
CTGTCTCAGAAGTACGGCGCCATCGTCGCGACCGGGCGCTCTGACCTGCCTAACCAGATC
AACAACGTGCTGGCGTTCCAGGAATTTTCGCCGGCGCTCTCGCAGCCAAGGCTAAGAAG
ATCACCCCGAGATGAAGCTCGCCGCTCAGAGGCAATCGCAGACATCGCAGCTGAGGACC
TCGAGGTGCGCCGCATCGTGCTACCGCCCTGGATCCCCGCGTTGCCCAACAGTCAAGG
CAGCTGTCCAGGCCGTGCGCAAAGCGCAAAACGCTTAAAAATTTGCTTATCGACGCCTCC
CTCCCCGTCGAGGCGCCAATATTT

>RXN01048-downstream

TAAGAGCAAACCTTGAGGCCCA

>RXN01049-upstream

AAGCACAGCAATTGAGCAATACTCCCATGCATGTTTTGCGGTGATCACGCTATATCCTTA
AAGAATATTCTTTATTAGTCAGACCTTTAAAGGAAACCTT

>RXN01049

ATGGGATCAATTCCAACAATGTCCATCCCTTTTGATGACTCACGTGGACCTTATGTCCTT
GCTATGGATATTGGTTCCACTGCATCAGAGGTGGACTTTATGATGCTTCCGGCTGCCCCA
ATCAAAGGCACCAAGCAGCGCGAATCCCATGAATTCACCACCGGTGAGGGCGTTTCCACC
ATTGATGCTGACCAGGTGGTTTTCGGAGATCACCTCAGTTATTAATGGCATTTTGAACGCG
GCTGATCATCACAACATCAAAGATCAGATCGCCGCTGTGCGCGTAGATTCTTTTGCATCC
TCATTAATCTTGGTCGATGGTGAAGGCAATGCGCTCACCCCGTGCATTACCTACGCGGAT
TCTCGTTCTGCACAGTATGTGGAGCAGCTGCGCGCGGAAATCGATGAGAAGGCCATACCAC
GGCCGCACCGGCGTCTGCTTGCACACCTCCTACCACCCATCGCGCTTGCTGTGGCTGAAA
ACTGAGTTCGAGAAAGAGTTCAACAAAGCCAAGTATGTGATGACCATCGGTGAGTACGTC
TACTTCAAACCTTGACGGCATCACCGGAATGGCTACTTCGATTGCCGCGTGGAGTGGCATT
TTGGACGCCCATACCGGCGAAGTTGATCTGACTATCTTGGAGCACATCGGTGTTGATCCG
GCTCTGTTCCGGTGAGATCAGAAACCCTGATGAACCAGCCACCGATGCCAAAGTTGTCGAC
AAAAAGTGGAAGCACCTGGAAGAAATCCCTTGGTTCCATGCCATTCCAGACGGCTGGCCT
TCCAACATTGGCCCAGGCGCCGTGGATTCTAAAACCGTCGCAGTCGCCGCCGTACATCC
GGCGCCATGCGCGTGATCCTTCCGAGCGTTCCCGAACAGATCCCTCTGGCCTGTGGTGT
TACCGCGTTTCCCGCGACCAAGTGCATCGTTGGTGGCGCACTCAACGACGTCGGACGCGCC
GTCACCTGGCTGGAACGCACCAATTATCAAGCCTGAAAACCTCGACGAAGTGCTGATCCGC
GAACCCCTCGAAGGCACCCCAAGCTGTCCTGCCGTTCTTCTCCGGGGAACGCTCCATCGGC
TGGGCAGCCTCAGCGCAGGCCACGATCACCAACATTAGGAACAAACCGGCCCTGAACAC
TTGTGGCGCGCGCTTTTGAAGCCCTCGCACTCTCCTACCAGCGCGTTTGGGAACACATG
GGGAAAGCCGGCGCAGCCCTGAACGGGTATCGCATCAGGACGAGTCTCCACCGACCAC
CCAGAATTCTCGCGATGCTTTCCGACGCCCTCGACACCCCAAGTCATCCCTCTGGAAATG
AAGCGCGCCACCCTCCGCGGCACCGCACTTATCGTCTTGGAGCAGCTCGAACCAGGCGGC
ACGCGCGCGACGCCACCAATTCGGCACGACGCATCAGCCGCGCTTTGCGCACCAATTACTCC
AAGGCAAGAGAGCTTTTCGACGCCCTCTACCTCAAGTTGGTC

>RXN01049-downstream

TAGCTTTTCGAGTGGAACGCGC

>RXN01130-upstream

AGTTCTGTGGCGGATGCTGTGAACGTTTCCGGTGGTCGCGTGGGCGAAGAGGTTCTGTGTG
G

>RXN01130

ATGGATCTGGCTCGCAAGCTTGGTCTTCTTGCTGGCAAGCTTGTCGACGCCGCCAGTC
TCCATTGAGGTTGAGGCTCGAGGCGAGCTTTCTTCCGAGCAGGTCAATGCACTTGGTTTG
TCCGCTGTTCTGTGGTTTGTCTCCGGAATTATCGAAGAGTCCGTTACTTTCTGTCACGCT
CCTCGCATTGCTGAAGAGCGTGGCCTGGACATCTCCGTGAAGACCAACTCTGAGTCTGTT
ACTCACCGTTCCGTCTCTGCAGGTCAAGGTCAATTACTGGCAGCGGCGCGAGCGCAACTGTT
GTTGGTGCCCTGACTGGTCTTGAGCGCGTTGAGAAGATCACCCGCATCAATGGCCGTGGC
CTGGATCTGCGCGCAGAGGGTCTGAACCTCTTCTGCACTGACGCTCCTGGTGCA
CTGGGTACCGTTGGTACCAAGCTGGGTGCTGGCATCAACATCGAGGCTGCTGCGTTG
ACTCAGGCTGAGAAGGGTGACGCGCTGTCTGATCCTGCGTGTGAGTCCGCTGTCTCT
GAAGAGCTGGAAGCTGAAATCAACGCTGAGTTGGGTGCTACTTCCTTCCAGGTTGATCTT
GAC

>RXN01130-downstream

TAATTAGAGATCCATTTGCTTGA

>RXN01143

ATCCAGTTGTACACACCTTGATGGCTTTGGGTACTTTCCCAGAGTCTCACGAGCTGCAC
ATGGGTATGCCAGGCATGCATGGCACTGTGTCCGCTGTTGGTGCACTGCAGCGCAGCGAC
CTGCTGATTGCTATCGGCTCCCGCTTTGATGACCGCGTCACCGGTGACGTTGACACCTTC
GCGCCTGACGCCAAGATCATTCACGCCGACATTGATCCTGCCGAAATCGGCAAGATCAAG
CAGGTTGAGGTTCCAATCGTGGGCGATGCCCGCGAAGTTCTTGCTCGTCTGCTGGAAACC
ACCAAGGCAAGCAAGGCAGAGACCGAGGACATCTCCGAGTGGGTTGACTACCTCAAGGGC
CTCAAGGCACGTTTCCCGCGTGGCTACGACGAGCAGCCAGGCGATCTGCTGGCACCACAG
TTTGTCAATTGAAACCTGTCCAAGGAAGTTGGCCCCGACGCAATTTACTGCGCCGGCGTT
GGCCAGCACCAATGTGGGCAGCTCAGTTCTGTTGACTTTGAAAAGCCACGCACCTGGCTC
AACTCCGGTGGACTGGGCACCATGGGCTACGCAGTTCTTGCGGCCCTTGAGCAAAGGCT

GGCGCACCTGACAAGGAAGTCTGGGCTATCGACGGCGACGGCTGTTTCCAGATGACCAAC
 CAGGAACTCACCACCGCCGAGTTGAAGGTTTCCCCATTAAGATCGCACTAATCAACAAC
 GGAAACCTGGGGCATGGGTTCGCCAATGGCAGACCCTATTCTATGAAGGACGGTACTCA
 AATACTAAACTTCGTAAACCAGGGCGAGTACATGCCCGACTTTGTTACCCTTTCTGAGGGA
 CTTGGCTGTGTTGCCATCCGCGTCACCAAAGCGGAGGAAGTACTGCCAGCCATCCAAAAG
 GCTCGAGAGATCAACGACCGCCAGTAGTCATCGACTTCATCGTCGGTGAAGACGCACAG
 GTATGGCCAATGGTGTCTGCTGGATCATCCAACCTCCGATATCCAGTACGCACTCGGATTG
 CGCCCATTTCTTTGATGGTGATGAATCTGCGAGCAGAAGATCCTGCCGACATTCACGAAGCC
 GTCAGCGACATTGATGCCGCCGTTGAATCGACCGAGGCA

>RXN01143-downstream
 TAAGGAGAGACCCAAGATGGCTA

>RXN01144-upstream
 GGTGATGAATCTGCAGCAGAAGATCCTGCCGACATTCACGAAGCCGTCAGCGACATTGAT
 GCCGCCGTTGAATCGACCGAGGCATAAGGAGAGACCCAAG

>RXN01144
 ATGGCTAATTCTGACGTCACCCGCCACATCCTGTCCGTACTCGTTCAGGACGTAGACGGA
 ATCATTTCCCGCGTATCAGGTATGTTACCCGACGCGCATTCAACCTCGTGTTCCCTCGTG
 TCTGCAAAGACCGAAACACACGGCATCAACCGCATCACGGTTGTTGTCGACGCCGACGAG
 CTCAACATTGAGCAGATCACCAAGCAGCTCAACAAGCTGATCCCCGTGCTCAAAGTCGTG
 CGACTTGATGAAGAGACCACTATCGCCCGCGCAATCATGCTGGTTAAGGTCTCTGCGGAC
 AGCACCAACCGTCCGCAGATCGTCGACGCCGCGAACATCTTCCGCGCCCGAGTCGTCGAC
 GTGGCTCCAGACTCTGTGGTTATTGAATCCACAGGCACCCAGGCAAGCTCCGCGCACTG
 CTTGACGTGATGGAACCATTCGGAATCCGCAACTGATCCAATCCGGACAGATTGCACCTC
 AACCGCGGTCCGAAGACCATGGCTCCGGCCAAGATC

>RXN01144-downstream
 TAAACAGCAATTAATCTGATTGC

>RXN01146-upstream
 TATTTAGTAAAGGAGCCAGAAAGTCGTGAATGTGGCAGCTTCTCAACAGCCCACTCCCCG
 CACGGTTGCAAGCCGTGGTCGATCCGCCGCCCTGAGCGG

>RXN01146
 ATGACAGGTGCAAAGGCAATTGTTGATCGCTCGAGGAGCTTAACGCCGACATCGTGTTT
 GGTATTCTCTGGTGGTGCGGTGCTACCGGTGTATGACCCGCTCTATTCTCCACAAAGGTG
 CGCCACGTCTTGGTGCGCCACGAGCAGGGCGCAGGCCACGCAGCAACCGGCTACGCGCAG
 GTTACTGGACGCGTTGGCGTCTGCATTGCAACCTCTGGCCCAGGAGCAACCAACTTGGTT
 ACCCCAATCGCTGATGCAAACCTTGGACTCCGTTCCCATGGTTGCCATCACCGGCCAGGTC
 GGAAGTGGCCTGCTGGGTACCGACGCTTTCAGGAAGCCGATATCCGCGGCATCACCATG
 CCAGTGACCAAGCACAACCTTCATGGTCACCAACCCTAACGACATTCACAGGCATTGGCT
 GAGGCATTCCACCTCGCGATTACTGGTCCGCCCTGGCCCTGTTCTGGTGGATATTCTTAAG
 GATGTCCAGAACGCTGAATTGGATTTCTGCTGGCCACCAAAGATCGACCTGCCAGGCTAC
 CGCCAGTTTCAACACCACATGCTCGCCAGATCGAGCAGGCAGTCAAGCTGATCGGTGAG
 GCCAAGAAGCCCGTCTTTACGTTGGTGGTGGCGTAATCAAGGCTGACGCACACGAAGAG
 CTTCTGCGTTCTGCTGAGTACACCGGCATCCCA

>RXN01175-upstream
 TCGCGTCTCTTAGTCGATCTGCTCCCATTCATAGGTTGGGAGAAAACCTAACTGTTATT
 CCATTCTTAAACACCGATATCGTGCTATGAATAGGGT

>RXN01175
 GTGAGTTGGACAGTTGATATCCCTAAAGAAGTTCTCCCTGATTTGCCACCATTGCCAGAA
 GGCATGCAGCAGCAGTTTCGAGGACACCATTTCCCGTGACGCTAAGCAGCAACCTACGTGG
 GATCGTGCACAGGCAGAAAACGTGCGCAAGATCCTTGAGTCGGTTCTCCAATCGTTGTT
 GCCCCCTGAGGTACTTGAGCTGAAGCAGAAGCTTGCTGATGTTGCCAACGGTAAGGCCTTC
 CTCTTGCAAGGTTGGTACTGTGCGGAACTTTCGAGTCAAACACTGAGCCGCACATTTCGC
 GCCAACGTAAAGACTCTGCTGCAGATGGCAGTTGTTTTGACCTACGGTGCATCCACTCCT
 GTGATCAAGATGGCTCGTATTGCTGGTCAGTACGCAAAGCCTCGCTCTTCTGATCTGGAT

GGAAATGGTCTGCCAAACTACCGTGGCGATATCGTCAACGGTGTGGAGGCAACCCCAGAG
GCTCGTCGCCACGATCCTGCCCAGATGATCCGTGCTTACGCTAACGCTTCTGCTGCGATG
AATTGGTGC GCGCTCACCAGCTCTGGCACCGCTGATCTTTACCGTCTCAGCGAGTGG
AACCGCGAGTTTCGTTGCGAACTCCCCAGCTGGTGCACGCTACGAGGCTCTTGCTCGTGAG
ATCGACTCCGGTCTGCGCTTCATGGAAGCATGTGGCGTGTCCGATGAGTCCCTGCGTGCT
GCAGATATCTACTGCTCCCACGAGGCTTTGCTGGTGGATTACGAGCGTTCATGCTGCGT
CTTGCAACCGATGAGGAAGGCAACGAGGAACCTTACGATCTTTCAGCTCACCAGCTGTGG
ATCGGCGAGCGCACCCGTGGCATGGATGATTTCCATGTGAACCTTCGCATCCATGATCTCT
AACCCAATCGGCATCAAGATTGGTCTGCTGGTATCACCCCTGAAGAGGCTGTTGCATACGCT
GACAAGCTCGATCCGAACCTTCGAGCCTGGCCGTTTGACCATCGTTGCTCGCATGGGCCAC
GACAAGGTTTCGCTCCGTACTTCTGCTGTTATCCAGGCTGTTGAGGCATCCGGACACAAG
GTTATTTGGCAGTCCGATCCGATGCACGGCAACACTTTCACCGCATCCAATGGCTACAAG
ACCCGTCACCTTCGACAAGGTTATCGATGAGGTCCAGGGCTTCTTCGAGGTCCACCGCGCA
TTGGGCACCCACCCAGGCGGAATCCACATTGAGTTCAGTGGTGAAGATGTCACCGAGTGC
CTCGGTGGCGCTGAAGACATCACCGATGTTGATCTGCCAGGCCGCTACGAGTCCGCATGC
GATCCTCGCCTGAACACTCAGCAGTCTTTGGAGTTGGCTTTCTCGTTGCAGAAATGCTG
CGTAAC

>RXN01175-downstream
TAAGCTTTTAGACCAACTCTAA

>RXN01193-upstream
GTGTGGCCAACCAGGCACGTCAGGCACAGATCACCCAGGAAATCACAGAGATTGTTGGTG
GCGCAGGCGCGCTCGCCGACAGCGGAGAAAGTGAATAATT

>RXN01193
ATGACTACAGCTCTTGAAGAGCAGAACGCACAGCAGGCAGCCACTGCCGGCCGTGTCGTG
CGTGTCATTGGTGC GGTGCTCGACGTGGAGTTTCCCCGCGGCGAGCTGCCAGCACTGTAC
AACGCACCTTACTGTAGAGGTAACCCTCGAATCAGTTAAGAAGACCGTTGTTCTCGAGGTT
GCTCAGCACCTCGGCGACAACCTCATCCGCACCATCGCTATGGCACCAACCGACGGACTT
GTCCGCGGTGCTGCTGTAACCGATACTGCACGCCCAATTTCCGTACCAAGTGGGCGATGTT
GTTAAGGGCCACGTATTCAACGCTTTGGGCGACTGCCTAGACGACGTTTCCCTGAACAAC
AACCCAGAGATCGAGCGTTGGGGCATCCACCGCGAGCCACCATCATTCGATCAGCTTGAG
GGTAAGACCGAGATCCTGGAAACAGGCATCAAGGTTATCGACCTTCTCACCCCTTACGTT
AAGGGTGGAAAGATCGGCCTCTTCGGTGGTGCAGGTGTGGGTAAGACCGTTCTTATCCAG
GAAATGATCACCCGTATTGCACGTGAGTTCTCCGGTACTTCCGTGTTTCGAGGTGTTGGT
GAGCGTACCCGTGAGGGCACCGACCTTCTCCTCGAAATGGAAGAAATGGGCGTTCTCCAG
GACACCGCCCTGGTGTTCGTCAGATGGATGAGCCACCAGGAGTCGGTATGCGCGTGGCT
CTGTCCGGCCTGACCATGGCGGAGTACTTCCGCGATGTTTGAAGACCGAGTGTGCTGCTG
TTCATCGACAACATCTTCCGTTTACCCAGGCAGGTTCTGAGGTTTCCACCCCTTCTGGGT
CGTATGCCTTCCGCCGTGGGTTACCAGCCAACCCTGGCTGACGAGATGGGTGTTCTCCAG
GAGCGCATTACCTCCACCAAGGGCCGTTTCGATTACCTCTCTGCAGGCCGTTTACGTTCTC
GCCGATGACTACACCGACCCGGCTCCAGCGACCACTTCGCTCACTTGGATGCAACCACC
GAGCTTGACCGCTCCATTGCTTCCAAGGGTATTTACCCAGCAGTGAACCCACTGACCTCC
ACCTCTCGTATTCTCGAGCCAGCAATCGTTGGTGGTGCAGTCACTACGAGGTTTCTCAGCGT
GTCATCGGCATTCTGCAGAAGAACAAGGAACCTCAGGACATCATCGCCATCCTTGGTATG
GACGAGCTTTCTGAAGAGGACAAGATCACCGTTGCACGTGCGCGTTCGCATCGAGCGCTTC
CTGGGTGAGAATCTTTCGTTGTCAGAGAAGTTACCGGTCTTCTGGCTCCTACGTGCCA
CTGACCGACACCGTCGACGCTTTCGAGCGTATTTGCAACGGCGACTTCGACCACTACCCA
GAGCAGGCTTTCAACGGCCTCGGTGGTTTGGACGATGTGAAGCTGCATACAAGAAGCTG
ACCGGAAAG

>RXN01193-downstream
TAAGGTAGAGACACATGGCTGAA

>RXN01204-upstream
TTACAGCGAGTTTTTCAGACGTCCATCGCACCGTGCACAACAACATTTTCAGGTGCACGGC
CCGAACACGGGAGAGAACGCTGAGCGTTACAACACTGTCC

>RXN01204
ATGAAGGGCGAATTCCACGCCCCCGATTTGGACAAAGAATTTTTCCCGGGGCACGTAACC

GATAGTGGTGAAGTCGTGAACATGCTGTTACCGATTTTCGCTAATGGTTGGTTCGCAATG
 GACCGCATCGTATTGATCCGTCTTCTTATGACGGCAGTCGTTGTGGTCTTCTTCCTTTGG
 GCTATGCGCAAGCCAAAGCTTGTTCCGCATGGCGTCCAGAATTTTGCAGAGTACGCACTC
 GATTTTCGTTGGTATTACATCGCTGAAGACATCCTCGGAAAGAAGAAAGGTCGTCGGTTC
 CTGCCGATCCTGGCCACCATCTTCTTCGCGGCTCTGTTGATGAACCTTGCAACGATCATC
 CCGGGACTAAACATCTCCTCCAACCTCACGTATTGCATTCCCAATCGTGATGGCGGTAGCT
 GGTTACATCGCGTTTATCTACGCAGGCTCTAAGCGTTACGGATTCTTCAAATATGTGAAG
 TCTTCTGTTGTGATTCCGAACATTCCACCAGCACTTCACGTCTTGGTGGTTCCAATTGAG
 TTCTTCTCTACATTCTCTTGAGGCCAGTCACCCTGGCACTGCGTTTGATGGCCAACTTC
 CTTGCTGGCCACATCATCCTGGTTCTGCTTTTCTCCGCAACGAACCTTCTTCTTCTCCAG
 TTCAACGGATGGACAGCAATGTCCGGCGTAACCATCTTGATGGCAGTACTCTTCACGGTT
 TACGAGATCATTGTTATCTTCTGCAGGCATACATCTTCGCTCTGCTGGTCGCTGTATAC
 ATTGAGCTTTCACTTCACGCGGATTCTCAC

>RXN01204-downstream
 TAGATGAAAAAGGTCGCTATTAA

>RXN01225-upstream
 TTTGGGCTAATGTTGGGGGGAGTGCTTTCAACTATCCACGAGAGCTGCCCAGTGATAAAC
 CCCGGGTAAACCCACGCCTAAGTCAGTGAAGGACTTTTT

>RXN01225
 ATGACGCACAACCACAAGGACTGGAACGATCGCATTGCAGTTGCGGAGGAAATGGTGCCG
 TTGATCGGGCGCCTGCACCGCAACAACAGTGGTGGTTTCCGTATTCGGTCGTCTCCTT
 GTGAATGTCTCAGACATCGATATCATCAAGTCTCACCGCTACGCCCCGCACATCATATCC
 AAGGAACCTCCACTGGAAAGCTCCTTGGATATTTTGCGCGAACTGGTAGATATGAACCTT
 GGTACCGCATCGATCGACCTGGGACAGCTGGCCTACAGCTTCGAAGAATCCGAAAGCACC
 GACCTGCGTGCTTCTTGAGGACGCTCTCGCGCCGGTCATTGGTGCGGAAACCGACATC
 AACCCAACTGATATCGTGCTGTACGGTTTTCGGCCGCATCGGTGCGCTGCTGGCCCGCATC
 CTGGTTTCCCGCGAGGCACTGTATGACGGTGCTCGTCTGCGCGCCATCGTGGTCCGCAAA
 AATGGTGAAGAAGACCTGGTCAAGCGCGCATCCTTGCTGCGTCTGATTCTGTCCACGGT
 GGATTGATGGCACCATCACCACCGATTATGACAACAACATCATCTGGGCCAACGGCACC
 CCAATCAAGGTCACTTACTCCAATGACCCAGCCACCATTGATTACACCGAATACGGCATC
 AATGACGCCGTCGTGTAGACAACACCGGCCGCTGGCGTGACCGCGAAGGCCTGTCCCAG
 CACCTCAAGTCCAAGGGCGTTGCCAAGGTTGTACTCACCGCGCCGGGCAAGGGCGATCTG
 AAGAACATCGTGACGGCATCAACCACACCGACATCACCGCAGATGATCAGATCGTTTCC
 GCAGCATCATGCACCACCAATGCCATTACCCAGTGCTCAAGGTGATCAATGATCGCTAC
 GCGTGGAATTTCGGCCACGTAGAAACCGTTCACTCCTTCACCAATGACCAGAACCTGATC
 GACAACCTCCACAAGGGTTCTCGCCGTGGTTCGCGCAGCAGGTCTGAATATGGTTCTCACC
 GAAACCGGCGCTGCAAAGGCTGTATCCAAGGCGCTTCAGAGCTGGAAGGCAAGCTCACC
 GGCAATGCCATCCGCGTTCTTACCCCTGACGTGTCCATGGCTGTGCTCAACTTGACCCTG
 AACACGGAGGTGGAACCGCGATGAGGTCAACGAGTTCTTCCGCGGTGTGTCCCTGCACTCT
 GACTTGCGCCAGCAAAATCGACTGGATCCGTTCCCAAGAGGTTGTTTCCACTGACTTCGTG
 GGCACCACCCACGCGGGCATCGTTGATGGTCTAGCCACCATCGCAACCGGTCGCCACCTG
 GTGCTTTACGTGTGGTACGACAACGAGTTCGGCTACTCCAACAGGTCATTTCGCATCGTC
 GAGGAGATCGCCGGCGTGCGTCTCGCGTGTACCCGGAGCGCAGGCAGCCAGCCGCTACTA

>RXN01225-downstream
 TAGGTTATCCAAGCCTAATACAC

>RXN01312-upstream
 GCAGTTGCGTACATCGTTCCCTGCACTGGTCCTGATCGGCAACATCACCATTCCGTTTCGCC
 ATCGCTGTTGGTTGGATTGCGTAAAGGTTAGGAAGAATTT

>RXN01312
 ATGAGCACTCACTCTGAAACCACCCGCCCAGAGTTCATCCACCCAGTCTCAGTCTCTCCCA
 GAGGTCTCAGCTGGTACGGTCTTGACGCTGCAGAGCCAGCAGGCGTTCCACCAAAGAT
 ATGTGGGAATACAAAAAGACCACATGAACCTGGTCTCCCCACTGAACCGACGCAAGTTC
 CGTGTCTCTCGTCTTGGCACCGGCCGTGTCCGGTGGTGTGCTGCAGCAGCAGCCCTCGGCCAA
 CTCGGATACGACGTCAAGGCGTTCACCTACCACGACGCACCTCGCCGTGCGCACTCCATT
 GCTGCACAGGGTGGCGTTAACTCCGCCCCGCGCAAGAAGGTAGACAACGACGCGCATAC

CGCCACGTCAAGGACACCGTCAAGGGCGGCGACTACCGTGGTCGCGAGTCCGACTGCTGG
 CGTCTCGCCGTGAGTCCGTCCGCGTCATCGACCACATGAACGCCATCGGTGCACCATTC
 GCCCGCAATACGGTGGCGCCTTGGCAACCCGTTCTTCGGTGGTGTGCAGGTCTCCCGT
 ACCTACTACACCCGTGGACAAACCGGACAGCAGCTGCAGTTCTCCACCGCATCCGCACTA
 CAGCGCCAGATCCACCTCGGCTCCGTAGAAATCTTACCCATAACGAAATGGTTGACGTC
 ATTGTACCCGAACGTAACGGTGAAAAGCGCTGCGAAGGCCTGATCATGCGCAACCTGATC
 ACCGGCGAGCTACCCGCACACACCGGCCATGCCGTTATCCTGGCAACCGGTGGCTACGGC
 AACGTGTACCACATGTCCACCCTGGCCAAGAAGTCCAACGCCTCGGCCATCATGCGTGCA
 TACGAAGCCGGCGCATACTTCGCGTCCCCATCGTTTATCCAGTTCCACCCAACCGGCCTG
 CCTGTGAATCCACCTGGCAGTCCAAGACCATTTCTGATGTCCGAGTCGCTGCGTAACGAC
 GGCCGCATCTGGTCCCCTAAGGAACCGAAGCATAACCGCGATCCAAACACCATCCCTGAG
 GATGAGCGCGACTACTTCTGGAGCGCCGCTACCCAGCATTCGGTAACCTCGTCCCACGT
 GACGTTGCTTCCCGTGCGATCTCCAGCAGATCAATGCTGGTCTCGGTGTTGGACCTCTG
 AACACGCTGCATACCTGGACTTCCGCGACGCCACCGAGCGCTCGGACAGGACACCATC
 CGCGAGCGTTACTCCAACCTCTTACCATGTACGAAGAGGCAATTGGCGAGGACCCATAC
 TCCAGCCCAATGCGTATTGCACCGACCTGCCACTTACCATGGGTGGCTCTGGACTGAC
 TTCAACGAAATGACGTCACTCCAGGTCTGTTCTGCGCAGGCGAAGCATCCTGGACCTAC
 CACGGTGCAAACCGTCTGGGCGCAAACCTCCCTGCTCTCCGCTTCCGTGATGGCTGGTTC
 ACCCTGCCATTACCATCCCTAACTACCTCGGCCATTGCTTGGCTCCGAGCGTCTGTCA
 GAGGATGCACCAGAAGCACAGGCAGCGATTGCGCGTGACAGGCTCGCATTGACCGCTC
 ATGGGCAACCGCCAGAGTGGGTGCGGTGACAACGTTACGGACCTGAGTACTACCACCGC
 CAGCTTGGCGATATCCTGTACTTCTCCTGTGGCGTTTCCCGAAACGTAGAAGACCTCCAG
 GATGGCATCAACAAGATCCGTGCCCTCCGCGATGACTTCTGGAAGAACATGCGCATCACC
 GGCAGCACCGATGAGATGAACCAGGTTCTCGAATACGCAGCACGCGTAGCCGACTACATC
 GACCTCGGCGAATCATGTGTGTCGACGCCCTCGACCGCGACGAGTCCTGTGGCGCTCAC
 TTCCGCGACGACCACTCTCCGAAGATGGCGAAGCACAACGTGACGACCAAACTGGTGC
 TTCGTCTCCGATGGGAACCGGCGAGAATGGAACCTTCGTCTGCCACGCAGAACCCTG
 TTCTTGAATCTGTCCCACTGCAGACAAGGAACATAAG

>RXN01312-downstream
 TAATGAACTTACACTTGAGATC

>RXN01332
 CACATCTCTGCCATTATTGAGCCCGACGCAGCACGTGCCGCTGCAGCTGCAGAAGACGCG
 CCGGGTGACAGGCCTTCACTCGCATTGAAGATGCTATCECAGCCGATGCTGTGACGCA
 GTGCTGATCGCCGTACCAGGTCACTTCCATGAGCCAGTACTTGTCCCAGCACTAGAAGCA
 GGCCTTCCCATCCTGTGTGAAAAGCCACTGACCCAGATTCTGAATCCTCACTGCGCATC
 GTCGAGCTGGAGCAGAAGCTGGACAAGCCACACATCCAGGTTGGTTTCATGCGCCGCTTC
 GACCCTGAGTACAACAACCTTGCAGCAATTGGTGGAATCCGGCGAAGCTGGCGAATGCTC
 ATGCTCCGCGGCTGCACCGCAACCCAAGTGTGGTGAGAGCTACACCCAGTCCATGCTG
 ATCACCGACTCCGTCGTCCACGAATTTCGATGTATCCCATGGCTCGCAGGCTCCCGAGTT
 GTCTCCGTTGAAGTGAAGTACCCAAAGACCTCCTCACTGGCGCACTCCGGCCTCAAGGAA
 CCAATCCTGGTGATCATGGAGCTCGAAAACGGCGTG

>RXN01340
 AAAGTGGGGGAGATCATCGCCTCCGTCTTTGATACCTTTAATATCCCGCAGGGCTTGGTC
 TCAATCATCACCACCACTCGAGATGCAGAGCTATCGGCAGAACTCATGGCTGATCCTCGC
 TTGGCTAAAGTACCTTCACTGGATCAACCAACGTGGGACGCATCCTGGTCCGCCAATCC
 GCGGACCGACTGCTGCGCACCTCCATGGAACCTCGGCGGAAATGCAGCTTTTGTATCGAC
 GAAGCCGCAGACCTCGACGAAGCCGTATCCGGTGCCATCGCCGCAAACTCCGCAACGCC
 GGCCAAGTATGCATCGCAGCTAACCGTTTCTTGGTTTCATGAATCCCGCGCTGCCGAATTC
 ACCTCAAAGCTGGCGACAGCCATGCAGAACACTCCATTGGGCGGCTGATTTCTGCCCGC
 CAACGCGACCGGATCGCAGCACTAGTGGATGAAGCCATCACCGACGGCGCCCGCTCATC
 ATCGGTGGGGAGGTCCCCGACGGCTCCGGCTTCTTCTATCCAGCCACCATCTTGGCCGAT
 GTCCCTGCACAGTCACGGATTGTGCATGAGGAAATCTTCGGACCTGTGGCCACCATTGCC
 ACTTTCACCGACTTGGCCGAAGGCGTTGCACAAGCAAATTCACCGAATTCGGCCTCGCA
 GCCTACGGATTACGAACAATGTGAAAGCAACACAGTACATGGCGGAACACTTGGAAGCC
 GGAATGGTCGGAATCAACAGAGGCGCCATCTCTGACCCAGCAGCACCTTTTGGCGGCATC
 GGACAATCCGGCTTCGGCAGAGAAGGCGGAACCGAAGGAATCGAAGAATATCTCTCCGTG
 CGTTACCTCGCTTTGCCG

>RXN01340-downstream
TGACACATGAGCTGTCCGGTGAA

>RXN01365-upstream
CCTGATCAGGACGAATCATAAGGTTTGCTATTTCGGATTGGATCCTTTGGCAGGGGTAGGA
TTGCAAGCGTTATTTTGTTCCTAACCCCTTCGAGGATTT

>RXN01365
ATGCGTACCCGTGAATCTGTACAGCTGTAATTAAGGCGTATGACGTCCGTGGTGTGTT
GGTGTGCATATTGATGCTGATTTTCATTTCTGAGACTGGCGCTGCCTTTGGTCGGCTCATG
CGTAGTGAGGGTGAAACCACCGTTGCTATTGGCCATGACATGCGTGATTCTCCCCCTGAA
TTGGCCAAGGCGTTTGCCGATGGCGTGAAGTGCACAGGGTTTGGATGTTGTTTCATTTGGGA
CTGACTTCTACTGATGAGCTGTACTTTGCGTCCGGAACCTTGAAGTGTGCTGGTGCGATG
TTTACTGCGTTCGCATAACCCCGCTGAGTACAACGGCATCAAGTTGTGTGCTGCGGGTGCT
CGTCCGGTTCGGTCAGGATTCTGGTTTGGCCAACATCATTGATGATCTGGTTGAGGGTGT
CCAGCGTTTTCATGGTGAGTCAGGTTTCGGTTTCTGAGCAGGATTTGCTGAGCGCATATGCC
GAGTACCTCAATGAGCTTGTGATCTGAAGAACATCCGCCCGATGAAGGTTGCTGTGGAT
GCGGCAACCGCATGGGTGGGTTCCTGTCCTGAGGTATTCAAGGGTCTGCCACTTGAT
GTTGCGCCACTGTATTTTTCGAGCTTGACGGCAATTTCCCCAACCATGAGGCCAATCCTCTG
GAGCCTGCCAACCTGGTTGATTTGCAGAAGTTTACCGTAGAGACCGGATCTGATATCGGT
TTGGCGTTTCGACGGCGATGCGGATCGTTGCTTCGTGGTTCGATGAGAAGGGCCAGCCAGTC
AGCCCTTCGGCGATCTGTGCGATCGTAGCGGAGCGTTACTTGGAGAAGCTTCCGGGTTC
ACCATCATCCACAACCTGATTACCTCTAAGGCTGTGCCTGAGGTGATTGCTGAAAACGGT
GGCACTGCGGTGCGTACTCGCGTGGGTCACTCCTTCATCAAGGCGAAGATGGCAGAGACC
GGTGCGGCCTTTGGTGCGGAGCACTCTGCGCACTACTACTTCACTGAGTTCTTCAATGCG
GACTCCGGCATTTTGGCTGCGATGCACGTGCTGGCTGCGCTGGGAAGCCAGGACGCCA
CTCAGTGAGATGATGGCTAGGTATAACCGGTACGTTGCTTCAGGCGAGTTGAACTCCCGT
TTGGCTAATGCAGAGGCGCAGCAAGAGCGCACCCAGGCTGTGCTCGATGCGTTTCGCTGAT
CGCACCGAGTCCGTGGACACCCTTGACGGCGTGAAGTGTGGAAGTCAAGGACACCTCCGCG
TGGTTCAACGTGCGTCCGTCCAACACCGAGCCGCTGCTTCGCCTCAATGTTGAAGCTGCA
TCGAAGGAAGAAGTCGATGCGTTGGTAGCGGAGATTCTAGGGATTATCCGCGCA

>RXN01365-downstream
TAATCCCATTTTCCGGCGGGCAT

>RXN01369-upstream
CTGCGACGGACCTAGCAAAGGGGCGCTGACACAAGCACTGCGTTTGCTGGTGCGCGACA
GTCAGCCACGACCTATTCCATTGAAGAAAAGGACTTGTA

>RXN01369
ATGGAGCTATTGGAAGGCTCACTGCGCACCTACCCATGGGGTTCAAGAACTGATCGCT
GATCTCAAAGGCGAAGAATCACCATCGTCTCGCCAGAGGCCGAAGTCTGGTTCGGTGCC
CAGGAGGATCACCATCAACCATCGGTGGAAACGCACTCAACGAAGTCATCGCAGCGAAC
CCCGAAGAAGCATTGGGCGACGCGTGTGCGGAAGCGTTTGAAAATGAGCTTCCATTCCCTC
CTCAAAATCCTCGCAGCGGGAGCACCCCTATCACTGCAGGCCACCCATCGCTGGAACAG
GCCCCGTGAAGGATTGCGCCGCGAAAACCTCAGCAGGAATTGACCTCGGCGCACCGAACCGC
AACTACCGCGACCCAAACCACAAGCCAGAGCTGATCGTTGCTCTCACGGAATTCATCGCG
ATGGCAGGCTTCCGCCCCACTGCGGAACACCCTCACCATTTTCGACGCCCTCGCCTGCGAA
CCCCCTCGACCGCTACCGCAGCATGCTCACCCTCGACAACGAGGAAGAATCCCTCCGCGCA
CTGTTTACCACCTGGATCACCATCCCCATCGGTAAACGACACGAAGTTCATCGATGCCCTC
ATCAGCAACGCCCCACCTACCTTGAGGCAAGCGATCGTGACGAGGACATCGCATTCGTG
CTCTCACACATCATCGAGCTCAACGAACAGTACCCCGGCGATGTCGGCGTTCTGGGTGCT
CTGCTGTTGAACCTCTACAAACTTGCCCCAGGCGAAGCCCTCTACCTCGACGCGCGAAC
CTTCACGCATACATCAGCGGCCCTCGGCGTAGAGATCATGGCGAACTCCGACAACGTGCTC
CGCGGTGGACTGACATCCAAATACGTCGACGTCCCGGAGCTTGTGCGCGTGTGGATTTC
AACTCTTTGGAAAACGCTCGCGTGGACGTTGAAGAAGACGGTGCAACGACCCACTACCCA
GTTCCAATCAACGAATTCCAACCTCGATCGCGTTGCAGTTCAGGGCGAAGCAGAAGCCAAC
CACGATGGTCCCATGATTGTTCTGTGCACCTCCGGAAGTGTTCCTTGAAGCAGGGGAG
AAGACCCTCGAAGTAGCAGCAGGTACGCGCGATGGGTTCAGCAAAACGACCCAAACCAT
GCGATGCGTTCTGAGGACGCGAAGTATTCCTCGCTAGGGTT

>RXN01369-downstream
TAGATCTTTTTAGATTAAATCA

>RXN01376-upstream
TCCTCATCGGTTATCGGGAGTGGCGGATACTTCTTGCAAACCTAAACCACTATGCTTTCG
CTTCGTGAGTACTTTGAAATCCCCCATCGCTGTGATCACA

>RXN01376
GTGACCTATTACACAGGTAAATACCTTGGCGTCGTTCTTGATTCTTTGCCTGGTGCGACT
TCACGAGACACCCACGTTGTGATGGCAGACAATGGTTCTGTGGACGGTGTCTCTGAGCAG
GCAGCAGCCTCACGCAGCAACGTGGAGTTCCTCTCAACTGGCGGCAACTTAGGCTACGGA
ACGGCTATTAATATTGCCGCCGATCGTTGCGTGCGCGCCGGGAGGCAGGAGAGATCGAT
GGGGAGTTCTTCTCGTCTCAAACCCTGATGTTGTTTTTGACGAAGACTCTATTGATCAA
TTGCTTGAATGTGCGAAACGTCACCCTGAAGCAGGAGCGGTTGGCCCGTTGATCCGTGAG
GCGGACGGTTCGGCGTATCCGTCCGGCTCGGGCGGTACCCACTTTGGCGAATGGCATTGGT
CACGCTTTGTTGGGTGCTGTGTGGAAATCCAATCCGTGGTTCGGCGGCTTACCGTGACGAT
GAAGATATGGACACTGAGCGCACTGCTGGCTGGCTGTTCGGGATCGTGCCTGTTATTAAGG
TGGGATGCGTTTTGATCGAGTTGGTGGTTTTGATGAGCGCTACTTCATGTACATGGAAGAC
GTTGACCTGGGAGATCGGCTGGTTCGCGCCGGTTTCACCAACGTCTTTTGCCCAAGTGCG
CAGATCATCCACGCGAAAGGTCATGTTGCGGGTAAAAACCCAGAGAACATGTTGCCCGCA
CACCACGAGAGCGCGTATCGCTTCCAGGCTGATCGCTCGCGAAGCCGTGGCAAGCCCCA
ATTCCGTTGGCTCTGCGAATTGGTTTGAATACGAGCCGGAGTCGCGGTTGGTGTCTCT
AAGATGAGAACGAAAGCCTCT

>RXN01376-downstream
TAGACCGTCGACGACCACCGGAC

>RXN01406-upstream
GTTCTCATTCCTCTAATCGGCGCACTATCTTTGCCTCGCGACGGCGGTGCCCGAGCCTT
TTCCTCCTCTTAGAAACCCACTTCTGAAAGGTATAAAAC

>RXN01406
ATGACTATTGAATCGGACTCGTTGGCTACGGTGTTCGGCGGCAGGCTCTTTCACACCCCT
TACATCCAAGCTTCTACGCACTGCGAATTAGTAGGCGTAGTTGCTCGTTCCGAAGGCACC
AAAGCAGCCGTTGCAGAAATCTTCCAGATGTTGCCATCGTGGGATCGCTGACAGAATC
CTCGAATGGGCGTCGATGCAGTGGTGATCTCCACCCCTCCAGCCACGCGCCGGGAAGTG
GCCTTGGAAGCAATCAACGCAGGTGTGCGAGTGGTTGCCGATAAACCGTTTGCAACCATCA
GCCGCAGATGCCATGGAATTTGTCGAAGCCGCCGAAAAGGCTGGAGTGCTGCTCAACGTC
TTCCACAACAGGCGCAACGACACCCACATTGTACGCGCACTGGGAATCCAAGAAGAACTT
GGTGCGATGCGTGGACTGGACCTGCGACTAGACCTGATCGAACCTGATTCTTGGAGGCA
GGTCCTGAAGGTGGTTTGCTGCGCGATCTGGGCTCACACGTAGTCGATCAGACCCCTGGTT
CTCATGGGGCCGGCTACCTCTGTCCACCGCCCAACTTGGATCCATCGACCTTCCAGAAGGC
CCAACCAACGCAAGGTTCCGCATCGTGTGGAACATGAATCGGGCGCGTATCGCACATT
TCTGCCAGCAAGATTGACCGCTTGGAGTCTTGGGAAATCCGCTTGGTGGGCGAGCGCGGC
TCCTACGTATCCAATAACACCGACGTGCAGACCGTGGCGATCAAACAGGGACTTCGACCA
ACCAATGACCGCGAACACTGGGGCTACGAATCGGAGGAGCGGTGGGGCACCTTGGTTACC
GATGAAGGCTCAAAGGTGATTCTTTCAGCACAAGGCGATTACACCCGCTTCTACGATGCC
TTTGCTTGGCTGTGGAACGCTGGCGCAGGGCCGGTGCCTGCACGTGAAGGTGTTGCA
GTGCTCAAGGTGTTGGATGCTGTAGCCAGAGCGCTGCGGAAAAACGCACCATTGAGTTG
AGC

>RXN01406-downstream
TAAGGAGAAGTGCTGCTGGCTGC

>RXN01468-upstream
TGCCAAGGATTTGACCACCGTGCAGGATTTGATTGACTTTATTAACACCAATAAGGCTGA
TTAGCGGGAAATTTGCCCCAAAACAGGGACAATGGTGTT

>RXN01468
ATGACAGTGAACATTTATATCTGACCGACATGGACGGCGTCTCATCAAAGAGGGCGAG
ATAATTCGGGTGCAGATCGTTTTCTTCAGTCTCTCACCGATAACAATGTGGAGTTTATG

GTTTTGACCAACAACCTCCATTTTCACCCCGAGGGATCTTTCTGCACGTCTTAAGACTTCC
GGTTTGGATATCCCGCCGGAGCGTATTTGGACTTCTGCAACCGCCACTGCTCACTTCCTG
AAATCCCAGGTCAAGGAGGGCACAGCCTATGTTGTTGGCGAGTCCGGTCTGACCACTGCG
TTGCATACCGCGGGTTGGATTTTGACGGATGCAAATCCTGAGTTTGTGTCTGGGCGAA
ACCCGCACATATTCTTTCGAGGCAATCACTACTGCGATAAATCTGATTTTGGGTGGCGCT
CGCTTTATTTGCACCAACCCGGATGTCACTGGACCTTCACCAAGTGGCATTTTGCCTGCT
ACTGGCTCTGTGCGCGCACTTATTACCGCAGCTACTGGCGCTGAGCCTTATTACATCGGC
AAGCCAAACCCTGTGATGATGCGCAGTGCCTGAACACCATCGGGGCGCATTCGAGCAC
ACTGTCATGATCGGCGACCGCATGGACACCGACGTGAAATCTGGTTTGGAAAGCCGGCCTG
AGCACCGTGTGGTTTGAAGCGGAATTTCCGACGACGCCGAGATCCGCCGCTACCCCTTC
CGCCCAACTCACGTGATCAATTCCATCGCCGATCTTGCCGATTGCTGGGACGATCCTTTC
GGTGACGGTGCATTTACGTACCAGATGAGCAGCAGTTCACTGAC

>RXN01468-downstream
TAGTATTCTGTAGGTCATGGCAT

>RXN01498-upstream
CAGTGGACAACCTACTTGGCGGGTCTTAAATCAGCTGTGAAGGATTCTGCATAAGCTGGGC
ACCACACGAGCATCAGAACGCGAAACGAAGGTAAAAGCCC

>RXN01498
ATGATCAAACGTCTTCCCTTTAGGTCCGCTGCCTAAAGAACTTCATCAGACTCTGCTTGAT
CTGACCGCAAATGCCCAAGATGCGGCGAAAGTGGAGGTTATAGCGCCATTTACTGGCGAG
ACCCTCGGATTTGGTTTTGATGGTGATGAGCAAGACGTGAGCATGCTTTTGCACTTTCA
AGGGCAGCCCAGAAAAAGTGGGTGCACACCACGGCAGTGGAAACGGAAGAAGATCTTCCCTG
AAGGTTTCATGATCTGGTATTGAAAAACCGTGAGCTGCTCATGGACATCGTGCAGTTGGAA
ACAGGCAAAAAATCGAGCATCGGCTGCCGATGAGGTGTTGGACGTTGCGATCACCACCCGC
TTCTACGCAAAACATGCAGGAAAGTTTTTAAATGACAAGAAACGCCCCGGCGCGCTTCCG
ATCATCACGAAAAACACACAACAGTATGTGCCCAAGGGAGTGGTGGGCGAGATCACGCCG
TGGAATTACCCCTTTAACTTTGGGAGTATCTGATGCTGTTCCGGCGCTGCTGGCAGGAAAC
GCAGTGGTGGCTAAACCTGACCTCGCGACACCTTTCTCCTGCTTGATCATGGTGCACCTG
CTCATTGAAGCCGGTCTGCCCGGTGATTTGATGCAGGTTGTACCCGGCCCTGGCGATATT
GTTGGCGGTGCGATTGCAGCTCAGTGTGATTTCTCATGTTCACTGGATCCACGGCCACG
GGCCGGATCTTGGGTGCGACAATGGGTGAGCGTTTGGTGGGTTTCTCTGCGGAATTAGGC
GGAAAGAACCCTCTTATTGTGGCCAAGGATGCAGATCTGGACAAGGTGGAAGCTGAGCTT
CCGCAGGCGTGTTTTTTCCAACCTCGGGGCAATTGTGTGTCTCCACTGAACGTATTTATGTC
GAGGAAGACGTGTACGAGGAGGTGATTGCACGGTTTAGCAAGGCGGCGAAAGCCATGTCC
ATTGGTGCCGGATTTGAGTGGAATATGAGATGGGTTCTGTTGATCAATCACGCGCAGCTG
GATCGGGTGAGCACCTTTGTTGATCAGGCTAAAGCTGCGGGCGCCACGGTGCTGTGCGGT
GGCAAGTCACGCCCTGATATTGGTCCCTTCTTCTATGAGCCACGGTATTGGCGGATGTC
CCAGAGGGGACCCCACTGCTCACGGAGGAAGTCTTCGGGCGCGGTGGTGTTCATCGAAAAG
GTAGCCACACTGGAAGAAGCCGTCGATAAGGCAAATGGCAGGCCCTACGGCCTGAATGCG
TCCGTCTTTGGGTGCTCGGAAACCGGCAATCTTGTGAGGCCAGCTGGAAGCTGGCGGT
ATCGGTATTAATGATGGCTACGCCGCGACGTGGGCGAGCGTGTCCACGCCTCTGGGTGGC
ATGAAGCAGTCGGGGCTGGGGCACCGCCATGGTGCAGGAGGAATTACAAAATATGCGGAG
ATCCGAAACATCGCGGAGCAGCGTGGATGTCTATGCGTGGGCGGCCAAAATGCCGCGA
AAGGTGTACTCAGACACCGTGGCCACAGCGCTAAAGCTGGGCAAAATCTTTAAAGTTTTG
CCG

>RXN01498-downstream
TAGCAAAAAGCCGGACCCCTTGCT

>RXN01550-upstream
TTCGCCAGCAGTACTTCTTCACCTCTGCTTCCCTGCAGGCCATGATTCAGGGCCACCTGG
CGCACACAAGGACCTCAGCAACTTTGCCGAGTTCACTCC

>RXN01550
GTGCAGCTCAATGACACTCACCCAGTGTTGGCTATCCCTGAGCTTATGCGTCTGCTCATG
GACGAGCATGACATGGGCTGGGAAGAATCCTGGGCAATCGTGTTCAAGACCTTCGCATAC
ACCAACCACACCGTGCTCACCGAAGCTCTTGAGCAGTGGGATCAGCAGATCTTCCAACAG
CTGTTCTGGCGCGTGTGGGAAATCATCACAGAGATCGATCGCCGCTTCCGTTTGGAGCGC

GCAGCCGATGGACTGGATGAAGAGACCATCGACCGCATGGCTCCAATCCAGCACGGCACT
 GTTCATATGGCATGGATTGCCTGTTACGCGGCATATTCCATCAATGGCGTGGCAGCGCTG
 CACACCGAGATCATCAAGGCCGAGACCTTGGCTGACTGGTACGCACTGTGGCCAGAGAAG
 TTCAACAACAAGACTAACGGTGTTACCCACGCGCTTGGCTGCGCATGATCAACCCAGGT
 CTGTCTGACCTGCTCACTCGACTTTCCGGTTCCGATGATTGGGTAACCGATCTGGATGAG
 CTGAAGAAGCTGCGCTCCTATGCCGACGATAAGTCCGTGCTTGAAGAACTCCGCGCTATC
 AAGGCTGCTAATAAGCAAGACTTCGCCGAGTGGATCCTCGAGCGCCAGGGCATTGAGATT
 GATCCAGAATCCATCTTTGACGTGCAGATTAAGCGCCTCCACGAGTACAAGCGCCAGCTC
 ATGAACGCGCTCTACGTACTAGACCTTTACTTCCGTATTAAGGAAGATGGCCTCACCGAC
 ATCCAGCACGCACTGTCTATCTTTGGCGCCAAGGCCGCGCGGGTTATGTCCGCGCCAAG
 GCGATTATCAAGCTCATCAACTCTATTGCTGACTTGGTAAACAACGATCCTGAGGTCTCC
 CCGCTGCTCAAGGTGGTCTTTGTAGAGAACTACAACGTCTCCCCTGCTGAGCACATCTTG
 CCTGCGTCTGATGTCTCCGAACAGATTTCCACCGCCGGCAAGGAAGCCAGCGGTACCTCC
 AACATGAAGTTCATGATGAACGGCGCCCTCACCTGGGCACCATGGACGGCGCCAACGTA
 GAGATCGTGGATTCTGTGGGCGAGGAAAACGCCTATATCTTCGGTGCTCGCGTGGGAAGAA
 TTGCCAGCCCTGCGCGAAAGCTACGAGCCATATGAGCTCTATGAGACCGTCCCTGGCCTC
 AAGCGCGCATTTGGACGCCCTGGATAACGGCACCCCTCAACGACAACAACAGTGGTTTGTTT
 TACGACCTCAAGCATTCCTTGATCCACGGTTATGGAAGAGACGCCAGCGACACCTACTAC
 GTGCTTGGCGATTTCGCAGATTACCGCGAGACCCGCGACCGTATGGCCGCCGACTACGCC
 TCCGATCCCCTGGGTGGGCACGCATGGCCTGGATCAACATTTGCGAGTCCGGCCGTTTC
 TCCTCCGACCGCACCATCCGCGATTATGCCACCGAGATCTGGAAGCTCGAGCCAACCTCCT
 GCTGTTAAGAAG

>RXN01550-downstream
 TAGGTTTTAACCTCCGCTTCTAA

>RXN01554-upstream
 TGGCTTAAACCTTATTTGTAGTTGTCAATAAATATGAAATTCCCTAGCAACTTGTTTAAA
 TAGACGTATAACAAGTTTGAAAAAGGAAGGTTATCCATC

>RXN01554
 TTGAAAAAGCATGTGACCTCAGCCGTTACCGCCGTGGTGACGGCTTTTTCAACGGCTGCG
 CTTGGTTTAAAGTATTGCCGTTTCTCCTGCTGTTGCCCAAGTGGCTAATCCAGCTCCAGAT
 CTTTCTGCGCCGATACATGGGTGGAAGAGTTTGATTCCGAGGATGCTCTCAAAGGGTGG
 AACATTTTCCGCCAGCCAGATTATGGCAGCGACAAAGTTCTCTATACCGAAGATGCTTTA
 AGTATCGAAGATGGCAAGCTCACCATCACCCTCAGCGCCACTGCGTTGACGAAGACTTC
 GCGATCAGTGATCCTGTCAACCGCGGAAAGCTCAATGACAGCACCGCGCAAGTTGAACCT
 TGTGCTCCAGGTCAGTTTGAAAAGTTTACCAGTGCAGCGCATCGTCACTCCGAAAATTGCT
 CGTGGAGAGTTTCGACCTTTCTGTCACTGCAACTCTTAACACCGGTGGCGTCGAAGGTGTC
 CGAAGTGCCATTTGGATGCAAAACGGTGAACAGGCGTGTTCCCTCAGCAACCAACAATGGC
 CTCTACGGAGAAGTACCTGGTAGAGCACTTTTCTTACGATCTTCGCTCGCCATGGTCT
 CCATCAAACACCCACTTGGGTTGTGATCCTGAAAGTGTCAACGGCACCAACCGTGACCT
 CGTGAACCTTAAACTAGATGAGTCACTGGCGTGGAGCACACCTGGACTGTGAGCACC
 ACCCGCGACGGCGTTGAGTACTTCATTGATGATGAGGCGATTAACCGCCAGTCATGGCGC
 AACGATGTCACTTTGGGGCATGCCGAAATTGATGATTTGGGATCTCCGCGCAGACGTTT
 GATGAGATCGTCGACCGGAATGGACTCTCACTCTTAATCAAAGGTAGAAAGCGCCGAC
 TGGGCAAAACACGTTCCCTCTGAGGAAGATTTCCAGTCCGGTCCATGGTGATTGACCGC
 ATCGAGGTCACCGGATCTCCCGCAGTATCTGAAGACACCCCATGCCAGATACCACCCAG
 CTTTTGACCCAAGACACTCTGGAATACCTCGGTGCGATGCCAGTGCTGGAACGCTACGAG
 CCAGCAAGTGCTGATTTTGCCGATGGCCGAGGCCTTCTTGGAAGTACTTCAATTTGAAG
 GAATCGTGGCAGAAATCCAGAACTCGAGCAACGCCAGAAAGCTGTGCAATTCGTTGATGGA
 CGCATGGATATCGTGACCCGTCGCCACTGTCTGGCCACCACTGATGACATCGCCACTCCG
 GAAAACGCACAGGAGGAACCGTGCGCGCCGGGTGAGGTGACACGCTACAGCTCAGCGCGT
 GTCCACCTTCCAGAGATCCCCGCCGGCAACTTCCGGCTCACCGTGCGCGCACGGGCGCAG
 TCCGAAGAGCTTGTGACGGCGTCCGCCCCGCTATCTGGATGCAGAACAAATACCAACTTC
 TGTGCTGACAACGATGGACGCCCTTATGGTGAAGTGGATATTACTGAGTTCTACAGCTCT
 CGTGTGAACACCCAGTACTCGGCAGTACACCTTGGATGTGCTGGCAACCGCCAGAGATG
 AAGCTTCGCCAAATGGAATGGAAGAGTCCATGTTTGGGGATTGGCATGACTGGGGCGTC
 GAAGTCTTCGACGGCCAGATCGTATTACCATTTGACGGCAAGGCAGTAACCTTCTCTGGC
 AAAGATGTCTTTGGCAACTCTGTTACCCAGCCGCTGCACCTCTTCGCCCCGCGCACTTC
 AAGTTGTGCGGAAGAGGAATACCGTGAAGTCATCGGGCAGCCTTGGCACCTTATTTTGAAC

ACCATGGTGGAGCAGTCTGGCAAAGACAGCTGGATTACAGCGGTCGACAATAACGAGGCG
TTCCAGAACACCGCTTCCAAATTGACCATGTGGCAGTAGATATCGAGTCTGACTCTGTG
GACAATGTATGGCCTGACGCTGCGAATGAAATCCCAGACAATGTTGGTATTGAAGACTCT
GATGATGGCAGCGACCTGGAGGTTGGTTCGACCGGAAGCTCTACAGCTGAGACCGTGAGC
TGGATCTCGTTGTTACCGCGTGTGAGCTCGCTGGTCTTCACACTGGCTCTCAATCAAGAA
GCATTGCAGAATTTGATTAATCAGTTCATGAGACAGTTCAAG

>RXN01554-downstream
TAATCCTTGTGGGCGCTTTGTCT

>RXN01562-upstream
GCAGGTGCACATTTGTTTTGTCTACCTGCACAAAAGTGTGCGCCAGCCCGATACTTGTACAA
CCGTCGCGATCCGAGAAGCAAAGGTGTCTGACTCGCGCCA

>RXN01562
ATGGGAATTCTGAACAGTATTTCAACACCTGCTGACTTAAAGGCCCTTAATGATGAGGAT
TTGGACGCTCTTGCCAAAGAAATCCGAACCTTTCCTGGTCGATAAAGTCGCAGCAACTGGT
GGCCACTTAGGTCCAAATTTGGGCGTAGTGGAATTAACCATCGGTCTTCATCGAGTTTTTC
GATTCGCCTCAAGACCCGATCATCTTTGATACTTCTCACCAGTCTATGTGCATAAGATC
CTGACGGGTGCGCTAAAGATTTTGATTCTTTGCGTCAAAAAGATGGCCTTTCTGGTTAC
ACCTGCCGTGCTGAAAGTGAGCACGATTGGACTGAGTCTTCGCATGCTTCGGCGGCCTTG
TCTTATGCGGATGGTTTGTCTAAAGCCAAGCAGTTGGATGGCGATAACCACGCATAGTGTG
GTTGCTGTCTGTTGGTGATGGCGCTCTAACTGGCGGCATGTGTTGGGAAGCACTGAACAAT
ATTGCTGTCTGGTAAAGACCGCAAAGTTGTTGTCTAGTCAATGACAATGGCCGGAGTTAT
TCTCCAACCATTTGGCGGATTTGCGGAAAACCTTGGCGGCCTTCGCATGCAGCCTTTCTAT
GATCGCTTCATGGAAAAGGGCAAGACGTCCCTGAAATCCATGGGGTGGGTAGGGGAGCGT
ACTTTTGAAGCGCTCCATGCATTTAAAGAAGGTGTGAAGAGCACCGTCATTTCCACCGAA
ATGTTCCCTGAACTGGGCATGAAATACGTGGGTCCGGTTGATGGACATAACCAAAAAGCT
GTCGACAATGCGCTGAAATACGCTCATGATTATGATGGCCCCATCATCGTGCACATGGTC
ACCGAAAAGGGTCGTGGTTACGCGCCTGCTGAGCAGGATTTGGACGAATTGATGCACTCC
ACGGGCGTCATCGATCCGCTCACAGGAGCTCCTAAATCTGCATCAAAGCCCGGTGGACC
TCTGTGTTTCAGCGATGAGCTGGTCAAGATTGGTGCGCAGAATGAAAACGTTGTTGCCATC
ACCGCCGCGATGGCAGGTCTACCGGTCTGTCCAAGTTCGAAGCCAATTTCCCAACCGA
TTCTTTGATGTGCGCATTTGCTGAGCAGCACGCGGTAACCTCTGCCGAGGCCTCGCATTG
GGTGGAAAACACCCTGTGGTGGCTATTTACTCCACGTTCTTGAACCGCGCTTTTGATCAG
CTGCTCATGGATGTGGGCATGCTCAACCAGCCTGTTACTTTGGTGCTTGATCGCTCAGGT
GTCACGGGTTTCGGATGGAGCGAGCCACAATGGCGTCTGGGATATGGCGCTGACCTCGATC
GTTCCAGGCGTGAGGTGGCGGCACCACGTGATGAGGATTCCTTGCGTGAGCTGCTCAAT
GAGGCTATTTCCATCGATGATGGCCCCACAGTTGTGCGTTTCCCCAAGGGCGACTTGCCA
ACTCCAATTGTTGCTATCGACACCTTGAAGACGGCGTGGATGTCTCGCATATGAAGAC
GCCACTGACGTTGAATCAACCGACGATGCGCCATCAGTTCTCATCATTTGCGGTAGGCGAG
CGCGCAACTGTGCGACTTGACGTTGCTTCCAGGATTAACAGCACGGCGTGAACGTCACG
TTGTTGATGACCCCGCTGGATTGTCCCATCCCGCAGTCCTTGGTCGCGCTGTCTGATGAT
CATGACCTCGTGATCACCATCGAAGACGGCGTCATCCACGGCGGCGTGGGATCCTTGCTC
TCTGATGCGCTTAACGCTCTGAGGTGGATACCCCTCGCCGACAAATCGCCGTGCCCCAG
AAGTACCTGGATCACGCGTCCCGCAATGAAGTGCTCGCCGATTATGGCCTCGACGCCGAC
GGCATTGAAACCACTGTTGTTGGATGGCTGGATTCCCTGTTTCGGGGAA

>RXN01562-downstream
TAAAACCCTGCTTATCGACGCCC

>RXN01569-upstream
AAGGCCTAGAGCAGACCATCGATTGGTACCGCGAAAACGAGGCCTGGTGGCGCCCTGCCA
AGAACAACGTGGAAGCTACCTACGCTAAGCAGGGACAATA

>RXN01569
ATGGAATACGGTAAACAACCTCACCTCCCACACCACCGACATCGAAGGCCTACTGGTTTTTC
GATTTCCCCGTCCACGGCGACAACCGCGGCTGGTTCAAGGAAAATTGGCAGCGCACCAAG
ATGACCAACCTGGGGCTGCCCGATTTTGGCCCCGTCCAAAACAACATGAGTTTCAACGCC
ACCGCCGGCACGACTCGCGGCATGCACGCTGAGCCGTGGGATAAATTTGTGTCCGTGCGC
GTGGGTTCCGTTTTTCGGAGCTTGGGTGGATCTGCGCGCGGGCTCGAGCACGTACGGTAAC

GTCGTAACGCAAAAAATTACCCCTGACGTGGGAGTTTACGTCCCGCGTGGTGTGGCAAAC
 GGCTTCCAGGCGCTCGAGGACGGCAGCTGTACACCTACCTCGTCAACGATCATTGGTCC
 CCGACGCGCATTACGCCAACGTCAACCTCAACATGATCGACTGGCCGCTGCCATCACC
 GAGATCTCCGAAAAAGATAAAAAACATCCAGCGCTTATCGACGCCACCCCTGCCCGCC
 CGCAAGTTTCTCGTGGTCGGCGCCGGCGGACAACCTGGGAACCGCGCTACGCGCGCAGTTC
 CCAGACGCGGAATTTGTACGCGCCAAGAACTCGATATCACCTCAGATCTCACCGAGGCT
 CGCGCGTGGAAACAATACTCCACCATCATAAACGCCGCCGCTACACTGCCGTTGACCAG
 GCAGAACACGACCGCGCAGCAGCGTGGGACATCAACGCAGCGGCAGTGGCTAACCTCGCG
 ACCATCGCGCGCGACAACAACCTCACCCCTCGTGACGTGTCTCAGATTATGTCTTCGAC
 GGTGCGGCCGAATCCTACGATGAAAACGCACCGTTTTTCCCCACTCGGCGTGTACGGCCAA
 TCCAAAGCAGCCGGCGACATCGGAGACACCACCGCACCGCGCCACTACATTGTGCGCACC
 AGCTGGGTGATTGGCGATGGCAATAATTTTGTCCGCACCATGAAATCCCTCGACGAACGC
 GGCATCGCACCATCAGTAGTTGATGATCAATCGGCCGCTATCCTTCACCGAAGACATC
 GCAGCCGGCATCGCGCACCTTTTGGAGTGGGTGCAGCATATGGCACCTACAACCTCACC
 AACACCGGCGAACCCGCAAGCTGGGCCGATGTTGCCCGCGCAGTATTTTCCGACCCACC
 AAAGTTACCGGCGTGAGCACCGCCGAGTACTTCGCCAACAAGACGCAGCGCCCCGCCA
 CTGAATCCGTTTTGGATCTCGGCAAAATCGAAGCCACCGGATTAGCGCACCGACCTGG
 CAGACCCGCTCAACGACTACCTCAAGAACTCTCAAAG

>RXN01569-downstream
 TGAAAGGCATCATCCTCGCAGGT

>RXN01580-upstream
 CGGTAAACGCCTCATTAAGTCCAATGCCATGCTCATAACACTAACAGTTAACCGTGCGG
 TCAACTTTGCTCCCTATCCTTAAAAAGCCACAGAAAAGG

>RXN01580
 ATGTATAAGAATATGCACATTGTTGCCCATCGCGGTGCGGAAGATCTGCACCTCGAAAAC
 ACCATGACCGCTTTCCAGGCTGCCGCGCCCGCTGACGCTTTTGAGCTGGATATCCACGCC
 ACCGCTGACAATCAGGTCGTCTTATCCACGACCGCACCGCAGCGCGTGTGCGCGCCA
 GATTCCCTGCACCGCGACACCCCGGTTGCGCGCTTAAGCGCCGCGCAAAATCAAGGAGATA
 ACGCTTATCGACGGATCCCCCGTACCAACCCTGGAGGAAGTTCTACTCCAGACGAGCCTG
 CCGATCCAAGTGGAAATCAAATCTGCCGCTGCAGTTCCAGCAGCCGCGCAGCATTTATGCG
 AAATACCCAGAGCACCTGGAGCGCCTGCTGTTTATCAGTTTCATCGATGCAGCACTGGTG
 GAAATCGTGGATCGACTGCCAGAAGCTCGCGTGGGAATCTTGCGCGATGCGTCCATGGAT
 GATCTGCGCATTCTTGATTACATCCCGCTAAAAAATGTGGGCGCGATCTTGCCCTCGTGG
 AAAGCACTAAACGTGGCGTCAATTGCTGATCTACATACCAAGGGAATCAAGGTTGGCTGC
 TGGACAATTCCGGATGAAAATGCGTTTGGGATCGCACACAAGCTGGCGTTGATTACGCC
 ACTGTTAGCGATCCCTCTCGTTTCCTCGCGCCCTCCCCTGCTGGGGAGTTGCACTGG

>RXN01580-downstream
 TAAATAATCTAGTGACCAGACTG

>RXN01593-upstream
 ATATGACAGCCTTCTTCTTGATCTAGATGGAACCGTCTACGAGGGCGGCCGAGCCATTGA
 GCACGTAGTTTCTGCGCTCTCTGGCGCCGGCCTACCCGTC

>RXN01593
 ATGTATGTACCAATAATGCCTCCCGTGCTCCGGAGGTGGTGGCTGCGCAACTCCGTGAG
 ATTGGCCTTGCCGACACCACTGCGGACAATGTGATGACATCTGCTCAAGCTGCCTGCAAG
 ATGGCGGCGGAGAGATTCCCGCTGGATCCAAGGTGTATGTTTTGGGTTCAGAATCCTTC
 CGCGAGCTAGCTAGTGAAGCTGGTTTTTGTGGTGGTTGATTGCGCTGATGATAAACCTGTG
 GCTGTGCTTACAGGCCACAACCTGAGACCGGTTGGGCTCAGTTGAGCGAGGCTGCGCTG
 TCAATTAATGCTGGCGCGCAGTATTTTGCATCAAATTTGGATTCCACCCTTCCCATGGAA
 CGCGGTGCTCACATTGGCAACGGTTCCATGGTGGCTGCCGTGGTCAACGCGACTGGCGTA
 AAGCCTCTTTCCGCGAGGTAAGCCAGGCCCCGCGATGTTCTATGCGGGGGCTGAAACTCTT
 AATTCTTCAAAGCCTTTGGCTGTGCGCGATCGTCTCGATACCGATATCGCCGGCGGAAAC
 GCTGCAGGCATGGACACATTCCAGGTCCTGACCGGCGTCAGCGGCTACTACGATTTGGTG
 CGCGCCATTCCCAGAGCAGCGCCCCACCTATATCGCCACCTCGATGCAGGATCTCTACAG
 CGATCCGGGCGAGCTCAAGCCAGGTGCCAGGGCGGTTTTTCAGCGCTTATCGACGGCGA
 CACCCTGGTCATTTCCGGCGGCGATGCCGGCGCAACTCCGGTTGCAGCACTCCGCACTGC

GTTGGATGTGGCCTGGGCGGCCACAGAGCAGTCACCGAGGTACGCGCTGATTCAGAGGTA
GCTGCTACTGCATTGCAGAGCTGGTGG

>RXN01593-downstream
TAAACGGTGAATTCACCAAAGCC

>RXN01630-upstream
GTAGGTGAGTCTTCGTGAGATACCCCGGCCAGTCATACAGTTCAACCAAGCTCCACCAC
CCAGATAAAAACCTGCGGGTTGCGTTTTAGGAGAATTCCC

>RXN01630
ATGAGTGATCAAAAAATTGTTGTTGGCCTGCTAGGCATCACCCACCCGCATGCGTCGGCG
CGGGTGCGTGCCCTCCGTGAAATTGATGGGGTAGAGGTGCTCGCCGCCGCGGATACTGAT
TCCCGCCTCCAGTACTTCACCGACAAATATGATGTTGAACCCCGCGAGATCGATGACGTC
TTGAACGACGATCGCATCAACGCCATCATGGTTCACTCCAAGAGCAAGGACATGGTCCCT
CACGCCAAGCGCGCGCTCGCGGCCGGAATCCGTGCTCGTGGAGAAGCCCGCGGGGGA
ACAGTGGCGGATCTTGAGGAGCTCCTGGCCCTCAAAGAAGCTGCCGATCCTCAGCGAATC
GTGCAGGTGCGGTACAACGTCCGCCTGTCTGAATCGGTTGAGAGATTAAAAGAGCTTCTC
GACGCCGCGCTCATCGGCGAAGTCGTGAGCGTGCAAGCACGCGCGCCGCAAAAGTAGGT
GAGCATATCACCGAGCACCTCAACCAACCCGAGACATGGGCGGTGTGTTGTGGATTCTT
GGCTGCCACATGCTCGATGCATTGGTGGAAGTCTTCGGAGCTCCAGAATCCGTGAACGCC
CGAGTGATAGAACCGCAAACTCTCTGACGACACCGCGCAAGACTCAGCCTCCGCA
CTGCTGTACTACCCAGATTTCTCCGTGAGCTTCAGCTTCGACGGCCACGATGATCTGGAA
TGGTTGCAAGCTCCCGACTCACGGTCTATGGAACCAAGGGCATGATCGAAGCCGGAATC
CTCCCTCAGACACTGCGCGTATACCTCAATGAGTCACGCCAGGGCTGGCCACAGGGTTGG
ACCGAGTGGACCCAGAGCTACTTCACCCACCGTTTGCTCGCACAGAATCCAACAAATTC
TCAGAGCTTCAGAGCTAGAAAACATCAGCAACTTCGCGACAGAAATGCAGGGGTGGGTG
AATTCCATTGCACTGGATCCCGCAATGTGGCGCCAGTTGAGGATGCTCTCACAGTCGCT
CGCATTGTGAGTGCATGCTACGAATCCGACAACAACCAGGGCATTTCGGTAAACATC

>RXN01630-downstream
TAAGAGGAGCACTCCATGAAACC

>RXN01631-upstream
GCCAGTTGAGGATGCTCTCACAGTCGCTCGCATTGTGAGTGCATGCTACGAATCCGACAA
CAACCAGGGCATTTCGGTAAACATCTAAGAGGAGCACTCC

>RXN01631
ATGAAACCACAACCTTATTGCATCTTGCTGGACCAGCGCGGGAGACGCCGCACCCGATCGT
GACGATCTCAGCAGCCAGTAGCAATCGATGAGCGCATCGCTCTAGTCGCTGAAACCGGT
TGGGCAGGCATTGGGCTTGTTACGCCGATCTCATCAAAGCACGCGACACCATTGGCTAC
GAGGAATTGCGCCGACGCATCCACGCTGCAGGAATTGAAATCATTGAGGTGGAGTTCCCT
AATGGTTGGTGGGCGACTGGTGCGGAACGCCAAGAGTCCGATGCCGTTCTGTCGGATCTG
TTTGCTGCGGCGCAAGCTCTTGTTTCCCCACACATTAAGGTGCGGAGCAGGAGAGGGCACC
AATGGTGTGGTTCCCATTTGCTCACATGGCCAGTGCGTTTACTGATCTCGCTGCGGAAGCT
GAAGCTCATGGCGTCAAGCTCGCGTTGGAAGCAACTCCGTTTTCTCACCTGAAGACCATC
TACGACGCGCTGGAAGTTGTCAGCCATTCCGATAGCCCATCGGCTGGACTCATGGTTGAT
ATCTGGCACACCGCGAAAAATCGGAATCCCCAACGATGAACTGTGGCGCAACATTCCACTG
TCCAAGGTCAACGCAGTGGAGGTTGATGATGGTTTCATTGACACCCCAATTGATCTTTTC
GATGACTCCACCAACCGTCGCGCGTACTGCGGTGAAGGCGAATTTGATCCCGCAAGCTTC
ATCCGTGGCGCCATCGACGCCGTTGGACGGGCGCATATGGTGTGGAAATTATTTCCGCA
GAGCACCGAAGCCTCCCGGTGAAAGAAGGGCTGCAACGTGCTTTGACACCACCATCGCA
GCGTTTGAACAAGCTGCTCGTCTCGCCCCCTCCACTAAC

>RXN01631-downstream
TGATCTTTGAAAGGCTGAAAAAA

>RXN01695-upstream
TATGGCCAACACTTGCAATTCGGGTGCTGGCGATCATTTATGAGATGACGCCTTGTGTTGG
TGTTCCGGCAGAGAACTCGCGGAGATAAAAGGAAGTTGAAC

>RXN01695

ATGTCTAGATTCCCCGAAGAACGCACCGAGGATTACCGATGAGGCAGATGTAGTTCTCATT
 GGTGCCGGTATCATGAGCTCCACGCTGGGTGCAATGCTGCGTCAGCTGGAGCCAAGCTGG
 ACTCAGATCGTCTTCGAGCGTTTGGATGGACCGGCACAAGAGTCGTCTCCCCGTGGAAC
 AATGCAGGAACCGGCCACTCTGCTCTATGCGAGCTGAACTACACCCCAGAGGTTAAGGGC
 AAGGTTGAAATTGCCAAGGCTGTAGGAATCAACGAGAAGTTCAGGTTTCCCGTCAGTTC
 TGGTCTCACCTCGTTGAAGAGGGAGTGCTGTCTGATCCTAAGGAATTCATCAACCCTGTT
 CCTCACGTATCTTTCGGCCAGGGCGCAGATCAGGTTGCATACATCAAGGCTCGTACGAA
 GCTTTGAAGGATCACCCACTCTTCCAGGGCATGACCTACGCTGACGATGAAGCTACCTTC
 ACCGAGAAGCTGCCTTTGATGGCAAAGGGCCGTGACTTCTCTGATCCAGTAGCAATCTCT
 TGGATCGATGAAGGCACCGACATCAACTACGGTGCTCAGACCAAGCAGTACCTGGATGCA
 GCTGAAGTTGAAGGCACTGAAATCCGCTATGGCCACGAAGTCAAGAGCATCAAGGCTGAT
 GGCAGAAAGTGGATCGTGACCGTCAAGAACGTACACACTGGCGACACCAAGACCATCAAG
 GCAAACCTTCGTGTTTCGTGCGCGCAGGCGGATACGCACTGGATCTGCTTCGCGAGCGCAGGC
 ATCCACAGGTCAAGGGCTTCGCTGGATTCCAGTATCCGGCCTGTGGCTTCGTTGCACC
 AACGAGGAATGATCGAGCAGCAGCAGCCAAGGTATATGGCAAGGCATCTGTTGGCGCT
 CCTCCAAATGTCTGTTCCCTCACCTTGACACCCGCGTTATCGAGGGTGAAAAGGGTCTGCTC
 TTTGGACCTTACGGTGGCTGGACCCCTAAGTTCTTGAAGGAAGGCTCCTACCTGGACCTG
 TTCAAGTCCATCCGCCCAGACAACATTCCTTCCCTACCTTGGCGTTGCTGCTCAGGAATTT
 GATCTGACCAAGTACCTTGTCACTGAAGTTCTCAAGGACCAGGACAAGCGTATGGATGCT
 CTTGCGGAGTACATGCCAGAGGCACAAAACGGCGATTGGGAGACCATCGTTGCCGGACAG
 CGTGTTTCAGGTTATTAAGCCTGCAGGATTCCCTAAGTTCGGTTCCTTGGAAATTCGGCACC
 ACCTTGATCAACAACCTCCGAAGGCACCATCGCCGGATTGCTCGGTGCTTCCCCTGGAGCA
 TCCATCGCACCTTCCGCAATGATCGAGCTGCTTGAGCGTTGCTTCGGTGACCGCATGATC
 GAGTGGGGCGACAAGCTGAAGGACATGATCCCTTCCTACGGCAAGAAGCTTGCTTCCGAG
 CCAGCACTGTTTGAGCAGCAGTGGGCACGCACCCAGAAGACCCTGAAGCTTGAGGAAGCC

>RXN01695-downstream

TAAATCTTCTAACTGCTTTCTTT

>RXN01744-upstream

TCTTATTGGTTCTTCGTTTTGTATCGATAAATACAATCGGTTTCCCTGGCTTAATAAGGCT
 GTTCCTGTCAACCTGCAATGGAAGAGGAAGTGTACCTAGC

>RXN01744

GTGGATGTCGTGACATCGCACGGTGGCAATTTCGGAATTACCAACGTCTATCACTTCATT
 TTTGTCCCCTGACCATTTGGCTTAGCGCCGCTGGTTCGCAATCATGCAAACGTTTTGGCAA
 GTTACCGGCAAAGAGCACTGGTATCGGGCCACAAGATTTTTTGGCACTGTGCTGCTCATC
 AACTTCGCGGTTGGTGTAGCAACGGGCATTGTGCAGGAGTTCAGTTCGGTATGAACTGG
 TCGGAATATTCGCGTTTTCGTTCGGTGATGTTTTCGGCGGACCGCTGGCTTTGGAGGGTCTT
 ATCGCGTTCTTCCTTGAGTCTGTATTCCTGGGACTGTGGATTTTCGGATGGGGGAAGATT
 CCTGGTTGGTTGCACACTGCATCCATTTGGATCGTTGCTATTGCGACGAATATTTCTGCC
 TATTTGATCATCGTGGCCAACTCGTTTATGCAGCATCCGGTGGGTGCTGAGTATAACCCCT
 GAGACTGGTTCGTGCGGAGCTTACTGATTTTTTGGGCTCTTCTCACAACCTCCACCGCGCTG
 GCTGCGTTCCCGCATGCTGTTGCCGGTGGTTTTTTAACAGCTGGAACCTTCGTTCTCGGA
 ATTTCCGGGTTGGTGGATTATTCGTGCGCACCGTCAGGCCAAGAAGGCTGAGTCGGAAATC
 GAGTCGAAGCATTTCGATGCACAGGCCCGCGTTGTGGGTTGGTTGGTGGACCACAGTTGTC
 TCTTCCGTGGCGCTGTTTCATCACTGGCGATATCCAGGCGAAGCTCATGTTTCGTGCAACAG
 CCAATGAAGATGGCGTCGGCGGAATCCTTGTGTGAAACCGCCACAGATCCAAACTTCTCC
 ATTCTGACAATTGGTACGCACAACAACTGCGATACGGTAACCCACCTGATCGATGTTCCG
 TTGTGTCTTCCATTCTTGGCTGAAGGAAAATTCACCGGTGTGACTTTGCAGGGTGTAAC
 CAGTCCAAAGCTGCAGCGGAGCAAGCATACGGTCTGGCACTACTCCCTAACTGTTT
 GTCACCTACTGGTCATTCCGCGCAATGATCGGCCTGATGCTTGGTTCTTTGGCTATCGCT
 GCGATTGCGTGGCTGTTGCTGCGTAAGAAGCGCACACCAACTGGAAGATTGCTCGTCTG
 TTCCAGATCGGCAGCCTCATTGCTATCCCGTTCCCATTTGGCCAACTCTGCTGGTTGG
 ATCTTACCGAGATGGGCCGCCAGCCTTGGGTGGTGCACCCGAACCCCTGAATCTGCCGGC
 GATGCCCGAACAGAGATGATCCGGATGACTGTTGATATGGGTGTATCTGATCATGCGCCA
 TGGCAAGTCTGGCTGACTCTCATTGGCTTCACGATTCTCTATCTCATTTTGTTCGTGGTG
 TGGGTGTGGCTGATTCCGCCGCGCAGTTCTGATCGGACCACAGAGGAAGGCGCTCCATCC
 GTGGAGGCAAAGACTGGACCGGCAACCCCGATTGGTTTCAGATATGCCCATGACACCGCTG
 CAATTTACTGCCGCTGCCCAACACAGGTGAAAAGGAA

>RXN01744-downstream
TAACCATGGATCTCAATACCTTT

>RXN01752-upstream
GAAATGACGTGACCATCGATACCAATACCCAATTGAAAGATCTTGACCTGGTCAGCCAAG
TTGGCCGTCAGATCGTGGCAGAACAACAGGTGGGGAGGTC

>RXN01752
ATGATGGAACAAGATCTCAGCTACCGTGAAATTCTTCCCCTCAACGCGAGTGAGGAGAAG
AAAAAGGCTGCACTGATTGATGCCATTGAAGGGTTAAGGGTGCGCGATCCGCTACTCTCT
GCCTCGATTGCATTTACTAGAGGGCAGAAAGTCGCCTTCATTGCTGTGGTGGTGGGCTTT
ATCTTGATGCTCATTTTTGCTCGGCAAGCAGCACTTATTGGACTGTCAGCAACGTGTACG
TTCATGTACCTCATTACATTGTTGGACAGATTTATCATGTTTTCCAGAGGTATCCGCGCG
GAATCCATCATCCAGGTATCGGATGAAGATGCGCTGGCTTTCCCTGAGGACAAGCTGAAA
ACCTACACGGTGTTGGTGCCCGCTATGGCGAACCTGAGGTGATTGCGCAGCTGCTGGCA
TCCATGCACGCTTTTGATTACCCCAAGCATCTTCTGCAGGTATTGCTCATGTTGGAGGAA
GATGATCTGCCCACGATCGCCGCGGCAGAGGCAGCGGGAGTGGATCAGGTGGCAACGATC
ATTAAGGTGCCGCCAGCGCAGCCCCGCACCAAGCCGAAGGCCTGTAACCTATGGATTGCAC
TTTGCCACGGGGGAAATTGTCACGATCTTTGACGCGGAAGACATGCCAGATCCCCCTCAA
CTGCGTCGCGTGTTGGTGGCATTGTAACGCTCGGCTTCCAATACGGTGTGCGTCCAGTCA
AGGTTGTCGTATCGAAACGCCAGGCAGAATCTGCTAACTGCGTGGTTACCATTTGAATAT
GACGTGTGGTTTTAACTTCCTGCTGCCAGGCGTCATGCGCATGAACGCACCTGTCCCATTG
GGCGGTACCTCCAACCATCTGCTCACGGGTGTCCTGAAAGATCTCGGCGCGTGGGATCCT
TTCAATGTCACAGAAAATGCCGACCTCGGCGTACCCATCGCGGCAAAAGGATATTCCACC
GCGGTGTTGGATTGCGTGACGTGGGAGGAAGCAAACTCCGACCATCAACTGGTTGCGC
CAGCGTTCTCGCTGGTACAAGGGCTATCTGCAACATGGCTTGTGTATATGCGCAGGCCA
AAGTGGTTAGTCCAAGAGCTTGGCATCATTCCTGCTGTGCGTTTTACCTTCCTCATGGCA
GGCACCCCGATCATTGCGGTGCTCAATCTGCTCTTTTGGTACTTGTGCTCACGTGGATT
CTGGGCCAGCCCGGCACCATGAGCAGATGTTCCACCTGCGGTGTAACCCAGCGTTG
GTGTGTTTTGGTGGTGGCCAATGCTGCGACCATCTTTATGAATCTCATTGGCTGCCGGGAA
GGCCGCGACCCCTTGCTGCTCATCGCGTTCTCACGTTCCCGCTGTATTGGCTGCTCATG
AGCATTGCAGCGTTGAAAGGCACGTGGCAATTGATCACGCGACCATCCTATTGGGAGAAA
ACTGCCCACGGATTGGAGGCG

>RXN01752-downstream
TAAGCGGTGCCCATCGTCAAACC

>RXN01884
GTGACTGCCATTGAATTGATGCCGGTCCACCAGTTCCTGCAGGATGATCGTCTCCGCGAC
CTAGGAATGCGCAACTACTGGGGCTACAACCTCTTCGGCTTCTTTGCGCCCTACAACGAT
TACGCTGCCAACAAGAACCCCGGTGGCGCCGTGGCCGAGTTCAAAGGCTTGGTGCGCAGC
TACCACGAGCGGGCCTCGAAGTAATTTTGGATGTGGTCTACAACCACACCCGCCGAGGC
AACCACATGGGCCCCACCATCGCGTTCCGAGGCATTGACAACGAGGCGTACTACCGACTG
GTTGAGGGCGATCGCCGTCATTACATGGACTACACCGGTACTGGTAACCTCCCTCAATGTC
CGCGACCCGCACTCACTGCAGCTGATTATGGATTGCTGCGCTACTGGGTACCGAGATG
CATGTCGACGGCTTCCGCTTCGACCTTGCTCTACCTTGCTCGTGAATTTGATGATGTT
GACCGCCTGGCAACCTTCTTCGACCTGGTCCAACAAGACCCGGTGGTCTCCAGGTCAAG
CTCATTTGCTGAGCCGTGGGATGTTGGCGAAGGCGGATACCAAGTGGGTAACTTCCCACCA
CTGTGGACTGAGTGAACGGTAAATACCGCGACACTGTCCGTGATTTCTGGCGTGGTGAG
CCAGCAACCTTGGGTGAATTCGCTTCCCGACTAAGTGGTTCTCTGATTTGTATGCAAAC
AACGGCCGTCGCCCCACTGCATCGATCAACTTTGTGACTGCTCACGACGGCTTCAACCTC
AATGACTTGGTCAGTTACAACGAGAAGCACAACATGGCCAACGGTGAAGACGGTCGGGAC
GGTGAATCACACAACCGTTTCCTGGAACGTGGCGTGAAGGACCAACTGACGATCCTGAG
ATTATGCAGCTGCGTGCTCAGCAACGACGCAACTTCCTCACCACCTTGTTGCTGTCCCAG
GGCACCCCTATGTTGTCCCACGGTGATGAAATGGCCCGTACCCAAAACGGCAACAACAAC
GTCTACTGCCAAGACAATGAACTGGCGTGGGTGAATTGGGATCAGGCTGAAGAAAACGCT
GACTTGGTGAGCTTACCAGGCGTTTGCTGCGTATCCGAGCAAACCCAGTATTTAGG
CGCAGGCAGTTTCCTTGCCGGTGGCCCTTTGGGCGCCGATGTTTCGTGACCGCGATATCGCA
TGGCTGGTACCAAATGGAACCTTGATGACTCAAGATGACTGGGACTTCGCTTTCGGTAAA
TCACTGCAGGTGTTCTTCAACGGCGATGCCATCGAAGAGCCTGATTATCGAGGACAGAAA

ATCCACGATGACTCCTTCATCTTGATGTTCAACGCTCACTTCGAACCTATCGATTTCAAT
CTCCCTCCTGAGCATTTCGGTATGAAGTGAAGCTTTTGGTCGATACCACCGAAGCGGTG
GGCCACCCGCTGGAGGATCTCACCATCGAAGCTGGCGGAACCATCACTGTTCTGCCCCGT
TCCACGATGCTGCTGCGCCAGGTGGAGGCTCCGGACTACACCAAGCTTGAGGAAAAGATC
GCTGCTGAAAAGCGTGAGCAAGAACTTGCGGCAGAGAAGGAAGCTGCTGAGAAGCGCGAA
TTGGAAGTGGCGGCAGCAAAGGAAGCTGAAGATGCTGCTGAGGCTCTCCACCTTGCGGCA
GAACGTGCTTCGACTCAGGAAGCTGAATTGGCCCATCAACACGGTGCTGATGCGATTGCC
GATGAGGTAGCGGAAGAACCAAGAGCTGCCACAAGATGAAGTAGCGGCAGAGGTCGAG
ACTGAGCCCCGACACCGAGCCTGACACTGAATCTGACTCCGAGCAGGCTGAGGTAGCTTCA
GAGGAGCCTGAAGCGGACGAAGAAGAGAAG

>RXN01884-downstream
TAGTACACCGAAAGTGGCGTCGC

>RXN01891
GGTGGCCACTATGGTTTGCCTTTCGCTCGCTCCACTGTCTCTTCTACTACAACAAGGAT
CTGTGGGCTAAGGCTGGCCTGGAAGATCGTGGCCAGAGTCATGGGAAGAGTTCTCCGAG
TGGGGTCCAAAGCTGCAGGAAGCGATGGACAGTGGTTTCGCACACGGTTGGGGAGATGCA
ACCAACTACCTTTCTTGACTTTCGAAGGCCCAATGTGGTCCCTCGGCGGCAACTACTCT
GAAGGTTGGGAGTCCCGTCTGACTACCCAGAGACCATCCGTGCAGTTGAGTGGCTCAAG
TCCACCGTTGATGAAGGTTTCGCAACCGTCTCCACCGACGTACCAACGAGTTTCGCAACC
GGCCTGATCGGTTTCATGCATCCAGTCCACCGGTGATCTGTCTTCGGTTGCCGCGCTGCA
AGCTTCGACTGGGGCGTAGCAGCACTTCCTAACCACACCGGCGAGGGCGCTTGCCCCAAC
GGTGGCGCAGGCCTGGGAATCCCATCTGGCATCTCTGAGCAGCGTCAGGACAACGCCCTG
AAGTTCATCGACTTCTCACCACGCCGCGAACACTGGCTACTGGTCCCGCGAGACCGGT
TATGTTCCAGTTTCGTAAGGATGCTGCATCTGATCCAGATCACGACGATTCCTCGAGGAG
AACCTGCATACAACGTTGCAGTGGAGCAGCTTCTGATACCCGTTCCCGAGGACAACCTC
CGCGTGCTGCTGCCAACGGTGACCGCACCATCGGTGACGCACTGGAGAAGATCTGCCTG
ACTGGTGCAGACATCGATGTCACCCTGGCTGAGGTTGAGACCAAGCTGAACACCATCTAC
ACCCGCGACATCGAACCCTTATT

>RXN01891-downstream
TAATCCGAGCACTTCAGCTACAC

>RXN01895-upstream
CGCGTACAGTGCTCAACACGACAACGCTTAAACGGCTGCACGCGTAACACGGCAGACCG
CACAAGCTTTAAGATCCACGATCAGGAGACTTTGACAAAT

>RXN01895
ATGTCAGTTAAACCAACCCGCCCGAAGGCGGCCGTACCCACGTCGTCGTCATCGGTTCT
GGTTTTGGTGGCCTTTTTGCTGCCAAGAACCTGGCCAAGGCAGACGTCGATGTCACTCTG
ATTGACCGCACCAACACCACCTCTTCCAGCCACTGCTGTACCAAGTGGCAACCGGTATC
CTCTCCTCCGGTGAAATCGCACCTTCCACTCGACAGATCCTGGGCTCCCAGGAAAACGTC
AACGTCATCAAGGGCGAAGTCAACGACATCAACGTCGAGTCCCAGACTGTGACCGCCTCC
CTGGGCGAGTTACCCGCGTTTTTGGAGTACGATTCTTGGTCGTTGGTGCTGGCGCAGGT
CAGTCTACTTTCGGCAATGATCACTTCGCTGAGTTCGCACCTGGCATGAAGTCCATCGAC
GATGCACTGGAGATTTCGTGCACGCATCATCGGTGCTTTCGAGCGCGCTGAGATCTGCGAG
GATCCAGCTGAGCGCGAACGCCGTGCTCACCTTCGTCGTTGTTGGCGCTGGCCCAACCGGT
GTTGAGCTTGCTGGCCAGTTGGCTGAGATGGCTCACCGCACCCCTTGCTGGTGAGTACAAG
AACTTCAACACCAACTCCGCAAAGATCATCTGCTTGATGGTGCTCCACAGGTTCTTCCT
CCATTCGGTAAGCGCCTAGGCCGCAACGCACAGCGCACCCCTGGAAAAGATGGGTGTCAAC
GTTTCGCTGAACGCTATGGTCACCAACGTTGACGCTACCTCGGTACCTACAAGACCAAG
GACGGCGAAGAGCACACCATCGAATCTTCTGCAAGATTTGGTCCGCTGGTGTTGCGGCA
TCCCCACTGGGCAAGCTCGTCGCAGAGCAGACCGGTGTTGAGACCGACCGCGCAGGCCGC
GTCATGGTTAACGATGACCTGTCTGTTGGCGATCAGAAGAACGTCTTCGTT

>RXN01927-upstream
GAGCAGCGGGATCTTTTGCGTAATTCGCGCGCGCAGATCCATGTGATTGACCACAATGGT
GATGAAATTTTGATACCCCAACGGAAGAGGATTTTAAAG

>RXN01927

ATGGCTTTGGTTCTTGAATCGATAGTTCCACCCAATCCTGCAAGGCTTTGCTTGTGCGAC
 GCCGCCACCGGCCAGGTTATCGACGAAGGCCGCGGAGTACCCGAGCGGGTCGGAGGTA
 GATCCACGTGCGTGGATCGCTGCGCTGGATCAAGCTACCGAGGGGTTGTTAGAACGCGCG
 GACGCTGTATCTATTGCAGGCCAGCAGCACGGCATGGTGGCGTTGGATGAAAACGATGAA
 ATCGTTGCGCCCGCGTTGTTATGGAATGACACTCGTTCTGCCCAGGCTGCGTTGGATCTC
 AATGAGGAGATCGGCGGCGATCAGGCTGCGGTAGATGCCACGGGAAGTGTGTATGTTGCT
 TCTTTAACTGCCACCAAAATGCGGTGGATGCGTGATCATGAACCAGAAAATGCAGCGCGC
 ACGGCGTCGGTGATGTTGCCTCATGATTTCCCTCACCTGGCATTGTGATGGGACGCGGACGC
 AAAGTCACCGACCATGGTGATGCTTCTGGAACGGGCTACTACAGCACGCGTGATCGTGCG
 TGGCGCACCGATCTAGCTGCCTTGGCGCTGGGCCATGAGGTGGAACCTTCCTGAACTCCTG
 GCCCCAAATGCGATTGCGGGAACAACCTCCAGGTGGAGTGAAAGTTGCTGCAGGCACGGGA
 GATAATGCTGCGGCTGCGCTTGGCCTTGATTTGCAGCCTGGTGATGTCAGCGTGTGATC
 GGCACCTCTGGCGTTGCCGGCATGACCGTTCAACATAGCGTCCACGATCCATCTGGTTTG
 GTCACCTGGTTTCGCGCATGCCACGGGTGCGTATTTCCCGCTGGCCTGCACGCTTAATGGC
 GCACCGGTGTTGGAATTCGGCCCGCGCATTTCTGGGCGTGGAATGGGAAGAGTTCGATGCG
 CTTGCACTGGCTGCTCAACCCGGTTCCAGGTGGCGTGACGCTCCAGCCTTATTTGGAGGGC
 GAGCGTACGCCGAATCGTCCCGCAGCACGTGGCGTTTGGCTGGACTAACTGTGCAACG
 ACCCGCGAGGACTTTGCCCGAGCAACTGTTGAAGGCTTGTGTTGGCATTGGATGATGCT
 GTAACGGCGCTGGTTGAGGCCACGGGAGTGCCCGTTCCAGCGCATCCAGCTCATCGGTGGC
 GCGCGCGTTTACAGGCGGTTTCGTGAGATTGCCCTGAGATTTTCGGCCATGAGATTGTG
 GTTCCAGAACCCGCTGAATATGTGGCGTTGGGTGCAGCTCGTCAGGCGGCATGGGCGCTG
 TCGGGTGAGGCCACGCCACCGCAGTGGCCAACCTCCCGTTCCGATCCGCACCGCGCACCT
 AAAAACACTGAGCTGAGCACGCGTTATGCGAAGCTGCGTGCTGCAACGCAGGGTTGGTAC

>RXN01927-downstream
 TAGAGCTCGATATTGTGATCAA

>RXN01952-upstream
 CCATCAAAAAATGAACGACCGCGGACTAGCTCGGATCAAGGCGACATCCCCTCAGCATCA
 TGACGCGCTTGTGATGCAACTGAATATAGGAAGCTTAGAG

>RXN01952
 ATGACGCAACCAGGACAGACCACCACGACTTCGCACGAAGCGATCGATGCGTTCAAGAGA
 ATCGTCGGCGACGAACATGTACTGACCTCTGAGCGTGCCACGATGCCATTACGCAAAGGC
 TATCGATTTCGGCGGAGGACCACTTTCGCGGTGGTGCGCCCCGGCACGCTGGTCGAGATG
 TGGCGGGCGCTGCAGGTATCCGTCGACAACAACCTCATCGTCATCCCGCAGGCATCGAAC
 ACGGGCCTGACTGGTGGATCCGGCCCCGGCTTCCAAGACTACGATCGCCCCATTGTGATC
 ATCTCGACTCACCGCATCGATGAGGTGCACCTCATCAACGACGCGCGGAGGCGATCTCG
 CTCGCGGGCACCCCCGCTGACACACCTGACCGACGCGCTCGCCAAGCACCAGCGCGAGCCG
 CACTCGGTGATCGGGTCGACATCAATCGGCGCCTCGGTTCATCGGCGGCATCGCGAACAAAC
 TCGGGCGGCAGCCAGATTTCGCAAGGGTCCGGCATTCACGCGCGAAGCGATCTTCGCCCGC
 GTCAACGACGACGGCAAGGTCGAGCTGGTCAATCACCTGGGCATCTCGCTCGGAGACGAC
 CCTGAGGTTCGACTCGACCGTCTACAGCGCGGCGAGTGGTCTCCCGAGGATGTCACCCCA
 GCTCCCGAAGACTCGAACGAGACCGAGTACGCGGAGCACTTGCGCAAGATCGTGCCCTTCG
 CCTGCTCGCTACAATGCGAACCCCGAGTACCTGTTTCGAGGCTTCCGGCTCGGCCGGCAAG
 CTGATGGTGTTCGCGGTGCGCACCCGACCTTCCCTCGCGAAGTGACCCGACCGTGTTC
 TACATCGGCACGAACAACACGCACGAGCTCGAAGAGATCCGTGGTGTTCCTCGAAGCC
 GACATGCCGCTGCCTATCTCTGGTGAGTACATGGGCCGCGAGTGCCTTCGACTTGGCCGAG
 AAGTACGGCAAAGACACCTTCGTCTTCCTGAAGTTCATGAGTCCAGCGCTGCAGACGCGC
 ATGTTCTCGTTCAAGACGTGGGCCAACGGCTTGTTCGAAAGATTCCCGGCATTGGTCCG
 ACCTTCGCCGACACGGTATCGCAAGCCATGTTTCAGCGTGCTGCCCAACCAGCTGCCCAAG
 CGCATGATGGAGTACCGCAACCGTTTCGAGCATCACCTGCTGCTACCGTACAGCGAGTTCG
 CAGAAGCCGCGAGCGAGAAGATGCTCAAGGAGTTCCTTCGCGAGAGCCGAGCACACTGGT
 GAGTTCTTCATCTGCACGTCTGATGAAGAAAAGAGCGCGTGCCTCAACCGGTTTCGGCGCG
 GCCAGTGCCGCCACTCGCTACGCCGCGTTGAAGCGCCGGCACATCGCAGGGCTCATCCCC
 ATCGATGTGGCCCTGCGTCGCGACGATTGGAAGTGGCTCGAGGTGCTGCCGGAGGAGATC
 GACGACCAGCTTGAGGTCAAGGCGTATTACGGGCACTTCTTCTGCCATGTGATGCACCAG
 GACTATGTGCCAAGCAGGGCGTGGATCTCGAGGCGCTGCACGACCGCATCCAGCACCTG
 CTGGAGGAGCGCGGCGCGAAGCTGCCCGCCGAGCACAACCTACGGTTCGATGTACAAGCTG
 CCGGAGTCCATGGAAGAGCACTTCAAGGAGCTCGATCCGACGAATACGTTCAACGCCGT
 ATCGGCGGCACGTGCGCCACAAGGACTGGGCC

>RXN01952-downstream
TAAGTCCCCAAGGTAGCGCGACG

>RXN02036-upstream
CTAAATGGAAGGCAATGGATACCCGCCGCATGAACCTCCGCCAATGGAAAATCCTCGTT
GCCCTCATCTCTGCTGCAGTGGCGGCTCTCGGAGGGTGGT

>RXN02036
GTGCATATTCCTTTTGGGACCTCGCCGACACCGTCTCCTGGGACTGCGGGGGAGGCAGC
TGCGCCACCAACGATTTGGTATCCCTGTTTCATGCCGGCCGCCTTCATGAGTACCCCTCGCC
GCCTGCGTATTTGGCGCGTGGGCCATAGGTTTGATCGCTCCCGCACTATTCATCGCGGTG
ACTGCCTGGGCATTTGCTCCGGCGTGCAGGCTGCGATTGCCGACGGCTACACGTCCGCG
ACTTCCGTGCGCTTCGAAATGACTGTCTCGCTCATTCTTTTCATCATCGCAGGTCTGTGC
TTTCTGGGCTGGATCCCCATGTTTCATCAACAACCGCCAAGTCGCGCGCAAGGTCCGCGAG
AGGGCTGCGGGCTTGAGCAAT

>RXN02036-downstream
TAGGCTCTCGCTTTTCGACGTTT

>RXN02046-upstream
TCCGTGCCATCACCACCGCGAGATCACTGGCATCGTGGACGCAAAACAAACAGCAACAG
AAATTATTAACATCCGACGCAACGCTTCAGGAGAGTCTCTC

>RXN02046
ATGAAAGAGACACTGACCACCGGTTTAACCCACCAATGACCTACATAGTGCCAGCAAAC
CGCACAGTTCCGCATCTGCTTCCCGAAGCAGCAGAATTTGAAACCATGCCAGATGTCCTG
GCCACTGGATATATGGTCGGCATCATCGAGTGGGCCTGCATGGAACCTCTGCGTCCCCAT
TTGGACGACGGTGAAATCTCGCTGGGCACTCATGTGAACCTCTCCACGCAGCTCCAACG
GTTCTTGATCCACGGTCACCATCGATGTTGAGGTGACAGAGATCAACCGTCGTGCAGTT
ACCTTCAACATCACTGCAGCTGATGAGTTCGCCACCATCAGCACCGGCACCCACAGCGC
GGTGTGGTTAACCGTGAGAAGTTTGTCTCCCGTCTGCCTGAAGCACCTAAGGAAAAAC

>RXN02046-downstream
TAAATCATGGCCAAGTTGTTTGA

>RXN02100
CTAGGTGCAATCAACGCCGAGGAGCAAAACCTCAGCGAATACCTCAGCGACAAGCTGTGG
TACCAGGACACCGCAGATGCAACCGATGCTGTGCGGAGATCCACTCGTTGCGTACTTCTCC
ATGGAGTTTGGCATTACCCCAAGCCTGCCAATCTACTCTGGCGGACTTGGTGTGCTTGCG
GGCGAGAACATGAAGTCTGCATCTGACTTGGGTGTGCCACTGATCGGTGTTGGTTTGCTC
TACACCCACGGCTACTTCACCCAGTCACTGTCCGGTGACGGTTGGCAGCAGGAAGAGTAC
AAGTACCACGATCCAGCAGAACTGCCGATTGAGGCAGTTAAAGATAAGAACGGCGAGCAG
GTCACTGTTTCTGTTCACCTACCCAGGTGCGCAGGAAGTAAAGATTGCACTGTGGGTAGCA
AACGTTGGCCGCATCCCATTGCTGCTGCTTGATACCAACATCGAGGCAAACCCAGAAGAG
CTCCGCAACGTTACTGACCGCTGTACGGTGGCGACAATGAGCACCGCATCAAGCAGGAA
CTCGTTCTCGGTGTTGGTGGCGTCCGCGCTGTCAACGCATTCTGCGAAGCTCGTGGTCTG
AAGCGCTCATCTGTTGCACACCTCAACGAAGGCCACGCAGGTTTCTGACCCTGGAGCGT
ATCCGCGAGCGCATCGCAGAGGGCATGGAGTACCCAGCAGCATTCGAGCAGGTTCTGTGCG
TCCAACATCTTACCAACCCACACCCAGTCCCAGCAGGCATCGACCGCTTCGACATGGAG
ATGGTGCCTGCTTATCTCGGTGGCGGTGAGCCAGAAGATCAGCAGCTGTGCGTTGGTGT
CCAATTGAGAAGGCACTTGAGCTTGGTCAAGAGTCCGATCCACACCGCTTCAACATGGCT
CATATGGGCCTTCGCGCGAGCCAAACATGCTAATGGCGTCGCAAAGCTTCATGGTGAAGTA
AGCCGTGACATGTTCCGCCGGCCTGTACCCCGGATATGAGCCTCGTGAAGTGCCCATCGGG
CACGTACCAACGGTGTTACCTGCCGACGTGGGTCAAGCCAGAGATGAAGGAACTCATC
GATCGCGTCACTGGCGGCGCTGATCTTGCGGTGCTGATTCTTGGTCAAACCCACAGGCT
GTCGAGTCTGAGAAGATCTGGAAGGTGCGCAACAAGTTCCGTGCTGACCTAGTGGAGGTT
GCTCGCGCTGCAACTGCAAAGTCCTGGTCTCACCGTGGACACACCGAAGCAGAACTTGCG
TGGACCTCCCGCGTTCTGGATCCAAACGTGCTGACCATTGGTTTTCGCACGTGCGGTATCC
ACCTACAAGCGCTTGACCTTGATGCTGCGCAACCCTGAACGCCTGCGTTCATCTTGCTT
AATGAGGAACGCCAGTTCAGTTGCTTATTGCTGGTAAGGCACACCCACATGACATGGGT

GGCAAGAAGCTCATGCAGGAAATCGTCCACTTCGCTGATCAAGCTGGTGTCCGTGACCGT
TTCCTCTTCTGCTGATTACGACATCAACCTGGCCAGCTACCTGATCTCTGGTGTGAC
GTGTGGCTGAACAACCCAGTGCGCCCTCAGGAAGCATCGGGAACCTCCGGTATGAAGGCC
GTCATGAATGGTGGCCTGACCCTGTCCATCTCTGATGGTTGGTGGGATGAAATGCCTAAG
GAGACCACCGGCTGGACCATCCCAACCGTTGAGTCCCAGGACTTGGAAATGCCGCGACCAC
CTGGAATCCCAGGCGCTGTACGACCTGCTGGAAAACGAAGTTGCACCGCTGTTTTACAAG
CGCGACAAGAACGGCATCCCACAGGACTGGCTGGACCTGGTTCGCGAATCCTGGACCACC
CTGTACCAATGGTCACCTCCACCCGCATGGTGC GCGACTACACCACCCAGTACTACCGC
CCAACCAAACACCAGGCAGAGCTCATTGCGCAGCCTGCAGAAGCAGCGGATTACGCGGCA
TGGCTTGAGCACATCAAAGCAGAGTGGGCTGGCGTCAAGGTCTCAGACCTGAAGATCAGC
GAGAGCGCCATCACGGCGCAGGAGCTTGAAGTCAGCGTTCGCGTTGATTCCGGTTCGCTT
AACGACGACGAGTTCCAAGCTCAGGCACTCTTTGGTGC GCTCGGACACAACGGTGACATC
GAAGATCCAGAAATCACCGTTTTGACCCACGCGGCGATGGCGCCTACGCGGCAAAGGTC
AGCACTGACCTGCCAGGCAACTACGGCATCACTGCCCCGCTTGTTCCAAACAACAGGATG
CTGGTCAGCCAGCGGAAACCCGCCTGATCACCTACTTGGAGAAC

>RXN02100-downstream
TAGGGCGAAACTAGCTTTACCAA

>RXN02125-upstream
GACCTAAAATTCATCACCTCACCGTTTTTAAGGCTTAGAAAAATAGCAGTGTTGGGATGT
GAATATCCATTTATGCTGCTGTAGTCGGCTATGTGGACGC

>RXN02125
ATGGTGGCAACCTCTCAGTTTATCGATGACAGCGAGGCTGCCCAGGCGGTACGCGCAGCT
ATTGTTGCAGGATACCGAAACATTGATACTGCCCTAGCGTATGGAAACGAGCGCGCGTT
GGCGAAGGCATTCGCACCGCTGGAGTGCCCGCGAGGAGCTCTTTATTTCCACCAAGCTA
GCTGCAGAAATCAAAGATTACGATGGAGCAGTCGCCGCGATTGATGAGTCTTTGGCGAAA
ATTGGCTTGGATTATGTCGATCTGATGCTCATTCACTCCCCACAACCATGGAGTGATTTTC
CGTGGTGGGGACTATTACAGAGGGAACCGTGAAGCGTGGCGCGCGCTGGAAGATGCCTAC
AAAGCCGGAAGATTTCGATCCATTGGTGTCTCGAACTTCCTGGAGGCCGATCTGGAGAAT
ATCTTAGACTCCGCGACGGTTGCTCCTCACGTTAATCAGCTTCTTGTGCATGTTGGAAC
ACCCCAAGCGAGTTAATCAGTTTCTGCGATTCCAAGGGCATTCTGGTCGAAGCATATTCA
CCCCTCGCCACGGAGAGATGCTGAAGAACCAGCAGGTCAAGGCGATTGCTGACAAGTAC
AACGTGAGCATTCCGCGAGCTATGCATTCCGGTACACAATTCAACTGGGAACGGTGTCTTTG
CCAAAGACTGCCAACCCAGATCATATGAGCTCCAATGCGCAGATCGACTTTGAAATTTCC
GAGGAAGACATGGCGGCACTTCAAGAAGTGACCGCCCGCGATTATGGCGAGCACAGCGGT
TTTCTGTGTATTCCGGCAAG

>RXN02125-downstream
TAGAAAGATTTTTATCATGGGAC

>RXN02206-upstream
GGCAGGATCTGCTGCTGCGGCTAGGAGGGTTATCTCTTCATTACCCGATCTACCGTACT
ACCTTATGACCTCAGTAGTGTTGGTGGGCGTGAAACAGCGA

>RXN02206
ATGGTCGGTTCAAGTGGTTTGCGGGTATCCAGGCTCGGTTTGGGCACCTCAACATGGGGC
TCGGGCACCGAGCTGGCTGAGGCAGGCGATATCTTTAAGGCGTTCATCAATTCTGGTGGC
ACGCTTATCGACGTCTCCCCAACTACACCACGGCGTCGCGGAAGAAATGCTCGGCACG
ATGTTGGATGCGGAAGTCTCTCGTTCCGCTGTGTCATTTCTCCAGCGCAGGTGTCAAC
CCGCTCTGCCGCTCGGCCGACGTGTGGATTGCTCCCGCCGCAATTTGATTGCCCAATTA
GATGTACCCCTGCGGGCATTAACACTGACTATTTGGATTTGTGGTCTGTGGGCTATTGG
GATGAGGGCACCCACCGCATGAGGTGGCCGATACTTTGGATTACGCCGTGCGCACCGGC
CGAGTCCGATATGCCGGTGTCCGAGGATATTCCGGTTGGCAGTTAGCGGTACCCACGCT
GCATCCAATCATGCAGCGGCTCCGCCCCGCCCGTGGTCTGTCACAAAATGAATACAGC
CTGCTGGAACGCCGCGCAGAACAAGAACTCCTCCCTGCCACCCAACACCTAGGTGTGCGA
TTCTTTGCTGGCGCTCCGCTGGGGCAAGGCGTGTGACTGCTAAATACCGCTCCGAAATT
CCCCATGATTCCAGAGCTGCATCCACAGGACGCGACGAGCAGAAGTCCAAAGCTACCTAGAT
AATCGAGGCCGCATCATTTGTCGATGCTCTTGATACTGCAGCCAAAGGATTAGGCATTAGC
CCCGCTGTACAGCCACCACCTGGGTGCGTGATCGTCCCGGAGTGACAGCTGTATCGTG

GGCGCTCGCACACATGAACAGCTGTCACATCTTCTCAAGGCGGAATCGGTGACTTTGCCA
ACACCAATCACACAAGCCCTTGATGATGTCTCCCTG

>RXN02206-downstream
TGACTTGGTCCAATTACATTAC

>RXN02209
ACCGAGTCCACCGTTGTTTCCTTCCATCGCTGGCCCTAAGCGCCACAGGACCGCATCCTT
CTCTCCGAGGCAAAGGAGCAGTTCCGTAAGGATCTGCCAACCTACACCGACGACGCTGTT
TCCGTAGACACCTCCATCCCTGCAACCCGCATGGTTAACGAAGGTGGCGGACAGCCTGAA
GGCGGCGTGAAGCTGACAACTACAACGCTTCTGGGCTGGCTCCGGCGAGTCTTGGCT
ACTGGCGCAGAAGGACGTCCTTCCAAGCCAGTACCGTTGCATCCCCACAGGGTGGCGAG
TACACCATCGACCACGGCATGGTTGCAATTGCATCCATCACCTCTTGACCAACACCTCT
AACCCATCCGTGATGATCGGCGCTGGCCTGATCGCACGTAAGGCAGCAGAAAAGGGCCTC
AAGTCCAAGCCTTGGGTAAAGACCATCTGTGCACCAGGTTCCCAGGTTGTGACGGCTAC
TACCAGCGCGCAGACCTCTGGAAGGACCTTGAGGCCATGGGCTTCTACCTCTCCGGCTTC
GGCTGCACCACTGTATTGGTAACCTCCGCCCACTGCCAGAGGAAATCTCCGCTGCGATC
AACGAGCAGACCTGACCGCAACCGCAGTTTTGTCCGGTAACCGTAACCTCGAGGGACGT
ATCTCCCTGACGTTAAGATGAACCTACCTGGCATCCCCAATCATGGTCATTGCTTACGCA
ATCGCTGGCACCATGGACTTCGACTTCGAGAACGAAGCTCTTGGACAGGACCAGGACGGC
AACGACGTCTTCTGAAGGACATCTGGCCTTCCACCGAGGAAATCGAAGACACCATCCAG
CAGGCAATCTCCCGTGAGCTTTACGAAGCTGACTACGCAGATGTCTTCAAGGGTGACAAG
CAGTGGCAGGAACCTCGATGTTCTTACCGGTGACACCTTCGAGTGGGACGAGAACTCCACC
TACATCCGCAAGGCACCTTACTTCGACGGCATGCCTGTGACGCCAGTGGCAGTCACCGAC
ATCCAGGGCGCACGCGTCTGGCTAAGCTCGGCGACTCTGTCAACCGACCATCTCC
CCTGCTTCTCTCCATTAAGCCAGGTACCCCTGCAGCTCAGTACTTGGATGAGCACGGTGTG
GAACGCCACGACTACAACCTCCCTGGGTTCCAGGCGTGGTAACCACGAGGTCTGATGCGC
GGCACCTTCGCCAACATCCGCCTCCAGAACCAGCTGGTTGACATCGCAGGTGGCTACACC
CGCGACTTCACCCAGGAGGGTGCTCCACAGGCGTTCATCTACGACGCTTCCGTCAACTAC
AAGGCTGTGTCATTCCGCTGGTCTTGGGCGCAAGGAGTACGGCACCGGTTCTTCC
CGTGAATGGGCGAGTAAGGGCACTAACCTGCTCGGAATTCGCGCAGTTATCACCGAGTCC
TTCGAGCGTATTACCGCTCCAACCTCATCGGTATGGGCGTTGTCCCACTGCAGTTCCTT
GCAGGCGAATCCACGAGTCCCTGGGCCTTGACGGCACCGAGACCTTCGACATCACCGGA
CTGACCGCACTTAACGAGGGCGAGACTCCTAAGACTGTCAAGGTACCGCAACCAAGGAG
AACGGCGACGTGCTCGAGTTCGACGCAATTTGTCCGCATCGACACCCAGG

>RXN02209-downstream
TGAGGCTGACTACTACCGCCACG

>RXN02213-upstream
TTCTGTGGAATGAGAATCCGATGTTTTTCTCACGCCGGCTCAGCCGAAGCAGACGCCGTC
GCGAAATCTCACCTAAAAAAGTTAGAATTGGAGCTCACT

>RXN02213
GTGACTGAAAGCAAGAACTCCTTCAATGCTAAGAGCACCTTGAAGTTGGCGACAAGTCC
TATGACTACTTCGCCCTCTCTGCAGTGCCTGGCATGGAGAAGCTGCCGTACTCCCTCAAG
GTTCTCGGAGAGAACCTTCTTCGTACCGAAGACGGCGCAAACATACCAACGAGCACATT
GAGGCTATCGCCAACTGGGATGCATCTTCCGATCCAAGCATCGAAATCCAGTTCACCCCA
GCCCCGTGTTCTCATGCAGGACTTCACCGGTGTCCCTTGTGTAGTTGACCTCGCAACCATG
CGTGAGGCAGTTGCTGCACTCGGTGGCGACCCTAACGACGTCAACCCACTGAACCCAGCC
GAGATGGTCATTGACCACTCCGTATCGTGGAGGCTTTCGGCCGCCAGATGCACTGGCT
AAGAAGCTTGAGATCGAGTACGAGCGCAACGAGGAGCGTTACCAAGTTCCTGCGTTGGGGT
TCCGAGTCCTTCTCCAACCTCCGCGTTGTTCCCTCCAGGAACCGGTATCGTCCACCAGGTC
AACATTGAGTACTTGGCTCGCGTCTTTCGACAACGAGGGCCTTGACATACCCAGATACC
TGCATCGGTACCGACTCCACACCAACCATGGAACACGGCCTGGGCATCCTGGGCTGGGGC
GTTGGTGGCATTGAGGCTGAAGCAGCAATGCTCGGCCAGCCAGTGTCCATGCTGATCCCT
CGCGTTGTTGGCTTCAAGTTGACCGGCGAGATCCCAAGTAGGCGTTACCGCACT

>RXN02326-upstream
CCAGGCGGACAGTTGTCCAACCTGCGTGCACAGGCCACCGCACTGGGCCTTGCGGATCGT
TTCGAACTCATCGAAGACAACCTACGCAAGCCGTTAATGAG

>RXN02326

ATGCTGGGACGCCCAACCAAGGTCACCCCATCCTCCAAGGTTGTTGGCGACCTCGCACTC
CACCTCGTTGGTGCGGGTGTGGATCCAGCAGACTTTGCTGCCGATCCACAAAAGTACGAC
ATCCCAGACTCTGTTCATCGCGTTTCTGCGCGGCGAGCTTGGTAACCTCCAGGTGGCTGG
CCAGAGCCACTGCGCACCCGCGCACTGGAAGGCCGCTCCGAAGGCAAGGCACCTCTGACG
GAAGTTCTTGAGGAAGAGCAGGCGCACCTCGACGCTGATGATTCCAAGGAACGTCGCAAT
AGCCTCAACCGCCTGCTGTTCCCGAAGCCAACCGAAGAGTTCTCGAGCACCGTCGCCGC
TTCGGCAACACCTCTGCGCTGGATGATCGTGAATTCTTCTACGGCCTGGTCGAAGGCCGC
GAGACTTTGATCCGCTGCCAGATGTGCGCACCCCACTGCTTGTTCGCTGGATGCGATC
TCTGAGCCAGACGATAAGGGTATGCGCAATGTTGTGGCCAACGTCAACGGCCAGATCCGC
CCAATGCGTGTGCGTGACCGCTCCGTTGAGTCTGTACCGCAACCGCAGAAAAGGAGAT
TCCTCCAACAAGGGCCATGTTGCTGCACCATTCGCTGGTGTGTACCGTGACTGTTGCT
GAAGGTGATGAGGTCAAGGCTGGAGATGCAGTCGCAATCATCGAGGCTATGAAGATGGAA
GCAACAATCACTGCTTCTGTTGACGGCAAAATCGATCGCGTTGTGGTTCTGCTGCAACG
AAGGTGGAAGGTGGCGACTTGATCGTCGTCGTTTC

>RXN02326-downstream

TAAACCTTTCTGTAAAAAGCCCC

>RXN02327-upstream

ACCGCTGAAGCAGCTTGGCCAGCCGCGTTTGTCTCGTGATCTCCGTGAGCAGGACGCACT
GGCAGTTACTGATACCACCTTCCGCGATGCACACCACTCT

>RXN02327

TTGCTTGCGACCCGAGTCCGCTCATTGCGACTGAAGCCTGCGGCAGAGGCCGTCGCAAAG
CTGACTCCTGAGCTTTTGTCCGTGGAGGCCTGGGGCGGCGGACCTACGATGTGGCGATG
CGTTTCTCTTTGAGGATCCGTGGGACAGGCTCGACGAGCTGCGCGAGGCGATGCCGAAT
GTAAACATTAGATGCTGCTTCGCGGCCGCAACACCGTGGGATACACCCGTACCCAGAC
TCCGTCTGCCGCGCGTTTGTAAAGGAAGCTGCCAGCTCCGGCGTGGACATCTTCCGCATC
TTCGACGCGCTTAACGACGCTCTCCAGATGCGTCCAGCAATCGACGCAGTCTTGGAGACC
AACACCGCGGTAGCCGAGGTGGCTATGGCTTATTCTGGTGATCTCTCTGATCCAAATGAA
AAGCTCTACACCCTGGATTACTACCTAAAGATGGCAGAGGAGATCGTCAAGTCTGGCGCT
CACATCTTGGCCATTAAAGGATATGGCTGGTCTGCTTCGCCAGCTGCGGTAAACCAAGCTG
GTCACCGCACTGCGCCGTGAATTGATCTGCCAGTGACAGTGACACCCACGACACTGCG
GGTGGCCAGCTGGCAACCTACTTTGCTGCAGCTCAAGCTGGTGCAGATGCTGTTGACGGT
GCTTCCGGCACCACTGTCTGGCACCACCTCCCAAGCCATCCCTTGTCTGCCATTGTTGCT
GCATTGCGGCACACCCGTGCGGATACCGGTTTGAGCCTCGAGGCTGTTTCTGACCTCGAG
CCGTACTGGGAAGCAGTGCGCGGACTGTACCTGCCATTTGAGTCTGGAACCCACGGCCCA
ACCGGTGCGCTTACCGCCACGAAATCCCAGGCGGACAGTTGTCCAACCTGCGTGACAG
GCCACCGCACTGGGCCTTGCGGATCGTTTCAACTCATCGAAGACAACCTACGCAAGCCGT

>RXN02327-downstream

TAATGAGATGCTGGGACGCCAA

>RXN02328-upstream

GAAGTCGTGCAGGTCAGGGGAGTGTTGCCCGAAAACATTGAGAGGAAAACAAAACCGAT
GTTTGATTGGGGGAATCGGGGGTTACGATACTAGGACGCA

>RXN02328

GTGACTGTCTATCACCTTGCGGCTCTCTTGTGTAAGGAATAATTACTCTAGTGTGCACT
CACACATCTTCAACGCTTCCAGCATTCAAAAAGATCTTGGTAGCAAACCGCGCGAAATC
GCGGTCCGTGCTTTCCGTGCAGCACTCGAAACCGGTGCAGCCACGGTAGCTATTTACCCC
CGTGAAGATCGGGGATCATTCCACCGCTCTTTTGTCTTGAAGCTGTCCGCATTGGTACC
GAAGGCTCACCAAGTCAAGGCGTACCTGGACATCGATGAAATTATCGGTGCAGCTAAAAAA
GTTAAAGCAGATGCCATTTACCCGGGATACGGCTTCTGTCTGAAAATGCCAGCTTGCC
CGCGAGTGTGCGGAAAACGGCATTACTTTTATTGGCCCAACCCAGAGGTTCTTGATCTC
ACCGGTGATAAGTCTCGCGCGGTAACCGCCGCGAAGAAGGCTGGTCTGCCAGTTTGGCG
GAATCCACCCCGAGCAAAAACATCGATGAGATCGTTAAAAGCGCTGAAGGCCAGACTTAC
CCCATCTTTGTGAAGGCAGTTGCCGGTGGTGGCGGACGCGGTATGCGTTTGTGCTTCA
CCTGATGAGCTTCGCAAAATTAGCAACAGAAGCATCTCGTGAAGCTGAAGCGGCTTTCGGC

GATGGCGCGGTATATGTGCGAACGTGCTGTGATTAAACCCTCAGCATATTGAAGTGCAGATC
 CTTGGCGATCACACTGGAGAAGTTGTACACCTTTATGAACGTGACTGCTCACTGCAGCGT
 CGTCACCAAAAAGTTGTGCGAAATTGCGCCAGCACAGCATTGATCCAGAACTGCGTGAT
 CGCATTTGTGCGGATGCAGTAAAGTTCTGCCGCTCCATTGGTTACCAGGGCGCGGGAACC
 GTGGAATTCTTGGTCGATGAAAAGGGCAACCACGTCTTCATCGAAATGAACCCACGTATC
 CAGGTTGAGCACACCGTGACTGAAGAAGTCACCGAGGTGGACCTGGTGAAGGCGCAGATG
 CGCTTGGCTGCTGGTGCAACCTTGAAGGAATTGGGTCTGACCCAAGATAAGATCAAGACC
 CACGGTGCAGCACTGCAGTGCCGCATCACACGGAAGATCCAAACAACGGCTTCCGCCCA
 GATACCGGAACTATCACCGCGTACCGCTCACAGGCGGAGCTGGCGTTTCGTCTTGACGGT
 GCAGCTCAGCTCGGTGGCGAAATCACCGCACACTTTGACTCCATGCTGGTGAAAATGACC
 TGCCGTGGTTCCGACTTTGAACTGCTGTTGCTCGTGACAGCGCGCTGGCTGAGTTC
 ACCGTGTCTGGTGTGCAACCAACATTGGTTTCTTGCGTGCGTTGCTGCGGGAAGAGGAC
 TTCATTCCAAGCGCATCGCCACCGGATTCAATTGCCGATCACCCGCACCTCCTTCAGGCT
 CCACCTGCTGATGATGAGCAGGGACGCATCCTGGATTACTTGGCAGATGTCACCGTGAAC
 AAGCCTCATGGTGTGCGTCCAAAGGATGTTGCAGCTCCTATCGATAAGCTGCCTAACATC
 AAGGATCTGCCACTGCCACGCGGTTCCCGTGACCGC

>RXN02328-downstream
 TGAAGCAGCTTGGCCCAGCCGCG

>RXN02333-upstream
 TCTTGCATGCCGTGCAAAGCCTGCCTGACCTGGATGATCTTGATCAGCTCAACATCGAAG
 TCGACATAAGCAACCAGGCCGCGACGAAAGCGGGGCTGTT

>RXN02333
 ATGAATCTCTTTTTCGAATGGTGTGATGTGGGGAGGCGTCGACAAGCATTAAAGCGGCA
 CTCGCCGCACCCACATCGCCCGGCTGCCCGGCGCATTCTCCCCTCTGATTGCGCGCTCC
 ATCGAAGAAGCCGGCTTCGAAGGCGTCTACGTTTCCGGCGCCGTCATAGCTGCTGACCTG
 GCACTACCCGATATCGGCTTGACGACGCTGACCGAAGTCGCCCACCGCGCGCGGCAAATT
 GCGCGCGTTCACAGACCTAGGAGTGCTTGTGACGCGCGACACCGGCTTTGGCGAACCCTATG
 TCGGCCGCGACGCACCGTCCCGGAATTGGAGGACGCCGGTGTGGCCGGATGCCACCTTGAA
 GACCAAGTCAACCCCAAACGTTGCGGGCACCTTGACGCGCAAAGAAGTCGTGCGCACAGAC
 GTGATGGTTTCAGCGCATCGCAGCCGCCGTCTCGGCCGGCGCGACCCGAACCTTGTCTATC
 TGCGCCCGCACCGGACCGCGCTGGAGTGGAAGGAATCGACGCGGCCATTGAGCGCGCGAAA
 GCCTACTTAGATGCGGGCGCCGACATGATTTTACCAGAAGCCCTCCACAGCGAAGCCGAC
 TTCCGATACTTCCGGCACGCCATCCCTGATGCCTTGTGCTGGCGAATATGACCGAATTT
 GGCAAACGACGCTGCTGTGACGCCGACGTGTTGGAAGAGATTGGCTACAACGCCGTGATC
 TACCCCGTGACACGCTGCGTATTGCCATGGGACAAGTAGAACAAGCACTAGCCGAAATC
 AAAGAACACGGTACCCAAGAAGGATGGCTGGACCGCATGCAACACCGCAGCAGATTATAT
 GAGCTCCTGCGATACGAAGACTACAACGTCTTTGACCAGCACATTTTACCTACAGAAA
 GGAGAAAACAATGAG

>RXN02333-downstream
 TGACAGCCAAGTCCGCAAAGGAC

>RXN02399-upstream
 TTGACGCACCAATGCCCGATGGAGCAATGTGTGAACCACGCCACCACGCAAACCGATGCA
 CATCACGTGAAACAGTGACAGTGCAATTAGCTCATACTTT

>RXN02399
 GTGGTCGGCACCGCCCATTCGGAATCAGCACTTAAGGAAGTGACTTTGATGTCAAACGTT
 GGAAAGCCACGTACCGCACAGGAAATCCAGCAGGATTGGGACACCAACCCCTCGTTGGAAC
 GGCATCACCCGCGACTACACCGCAGACCGTAGCTGATCTGCAGGGTTCCGTCATCGAG
 GAGCACACTCTTGCTCGCCGCGGCTCAGAGATCCTCTGGGACGCGAGTCACCCAGGAAGGT
 GACGGATACATCAACGCGCTTGGCGCACTCACCGGTAACCAGGCTGTTTACGAGGTTTCGT
 GCAGGCCTGAAGGCTGTCTACCTGTCCGGTTGGCAGGTGCGAGGTGACGCCAACCTCTCC
 GGCCACACCTACCTGACCACTCCCTCTACCCAGCGAACTCCGTTCCAAGCGTCGTTTCGT
 CGCATCAACAACGCACTGCTGCGTTCGGATGAAATCGCACGCACCGAAGGCGACACCTCC
 GTTGACAACCTGGGTTGTCCCAATCGTCGCGGACGGCGAAGCTGGCTTCGGTGGAGCACTC
 AACGTCTACGAACCTCAGAAGGCAATGATCGCAGCTGGCGCTGCAGGCACCCACTGGGAA
 GACCAGCTCGCTTCTGAAAAGAAGTGTGGCCACCTCGGCGGCAAGGTTCTGATCCCAACC

CAGCAGCACATCCGCACCCTGAACTCTGCCCCCCTTGACAGCAGACGTTGCAAACACCCCA
ACTGTTGTTATCGCACGTACCGACGCTGAGGCAGCAACCCTGATCACCTCTGACGTTGAT
GAGCGCGACCAACCATTTCATCACCGGTGAGCGCACCGCAGAAGGCTACTACCACGTCAAG
AATGGTCTCGAGCCATGTATCGCACGTGCAAAGTCTACGCACCATACGCAGATATGATC
TGGATGGAGACCGGCACCCCTGACCTGGAGCTCGCTAAGAAGTTTCGCTGAAGGCGTTTCGC
TCTGAGTTCCAGACACGCTGCTGTCTACAACCTGCTCCCCATCCTTCAACTGGTCTGCA
CACCTCGAGGCAGATGAGATCGCTAAGTTCCAGAAGGAACCTCGGCGCAATGGGCTTCAAG
TTCCAGTTTCATCACCTCGCAGGCTTCCACTCCCTCAACTACGGCATGTTTCGACCTGGCT
TACGGATACGCTCGCGAAGGCATGACCTCCTTCGTTGACCTGCAGAACCCTGAGTTCAAG
GCAGCTGAAGAGCGTGGCTTCACCGCTGTTAAGCACCAGCGTGAGGTTGGCGCAGGCTAC
TTCGACCAGATCGCAACCACCGTTGACCCGAACCTCTTCTACCACCGCTTGAAGGGTTCC
ACTGAAGAAGGCCAGTTCCACAAC

>RXN02399-downstream
TAGGACCTACAGGTTCTGACAAAT

>RXN02404-upstream
GTTTTACAACCGTTAACGGCGTAGCCAAACAAGAAGGATTTCGCATTCTTCTGGTTTAGG
CACAGGTCATCTAAAACCCATGCTTTAAAAGGAGCCTTCA

>RXN02404
ATGACTGAACAGGAACTGTTGTCTGCTCAGACTGCCGACAACGCTGGAACTGACAGCACC
GAACGCGTTGACGCGGGCGGAATGCAGGTTGCAAAAGTTCTCTACGACTTTGTAACCGAA
GCGGTACTCCCTCGCGTGGGTGTGGATGCGGAAAAGTTCTGGTCCGGATTGCGCGCCATC
GCCCGGGACCTCACCCACGCAACCGCGAGCTGCTTGCTCGCCGCGATGAACTGCAGATG
CTTATCGACGACTACCCCGCAACCTCCGGCACCATCGACCAAGAGGCGTACGAGGAT
TTCCTCAAAGAAATCGGATACTTGGTTGAGGAGCCAGAAGCTGCAGAAATCCGTACCCAA
AACGTCGATACGGAATCTCCAGCACCGCAGGACCTCAGCTGGTTGTTCCAATTCTGAAC
GCACGCTTCGCGCTGAACGCTGCCAATGCTCGCTGGGGTTCCCTCTACGATGCGTTGTAC
GGCACCAACGCCATCCAGAACTGATGGCGCTGAAAAGGGCAAGGAGTACAACCCGGTC
CGCGGCCAGAAGGTCATCGAGTGGGGTCGTGAATTCCTCGACAGCGTTGTCCCACTGGAC
GGTGCTTCGCATGCCGATGTTGAGAAGTACAACATCACCGATGGAAAGCTTGCAGCCAC
ATTGGAGATAGCGTCTACCGACTGAAAAACCGTGAATCCTACCGTGGCTTCACCGGCAAC
TTCCTTGATCCAGAAGCAATCCTGCTGGAACAACGGCCTGCACATCGAGCTGCAGATC
GATCCTGTCCACCCAATCGGCAAGGCAGACAAGACTGGTCTCAAAGACATCGTTTGGAA
TCTGCGATCACACGATCATGGACTTCGAAGACTCCGTTGCAGCTGTTGATGCTGAAGAC
AAGACCTTAGGTTACTCTAACTGGTTCCGACTCAACACCGGCGAACTGAAAGAAGAGATG
TCCAAGAACGGACGCATCTTCACCGTGAGCTCAACAAGGACCGCGTCTACATTGGCCGC
AATGGTACCGAGCTGGTTCTGCACGGTCGTTCCCTGCTGTTTCGTCCGCAACGTTGGTCAC
CTCATGCAAAACCCATCCATCTTGATTGATGGCGAGGAGATCTTCGAAGGCATCATGGAT
GCTGTCTTGACCACTGTTTGTGCCATCCCAGGAATTGCTCCGCAGAACAAAGATGCGCAAT
TCCCGCAAGGGCTCCATCTACATCGTGAAGCCTAAGCAGCACGGCCCTGAAGAAGTCGCG
TTCCACCAACGAGCTTCTCGGCCGCTTGAGGATCTGCTTGATCTGCCACGCCACACCTTG
AAGGTTGGTGTTATGGATGAGGAGCGTCGCACGTCCGTGAACCTGGATGCCAGCATCATG
GAAGTTGCTGACCGCTTGGCATTTCATCAACACTGGCTTCCTGGACCGCACCGGCGATGAA
ATCCACACCTCCATGGAAGCAGGCGCCATGGTGCGCAAGGCTGATATGCAGACCGCACCG
TGGAAGCAGGCCTACGAGAACAACAACGTTGATGCAGGTATTCAGCGTGGTCTTCCTGGC
AAGGCTCAGATCGGTAAGGGCATGTGGGCGATGACTGAACTCATGGCAGAAATGCTGGAG
AAGAAGATCGGCCAGCCACGCGAAGGCGCCAACACTGCATGGGTTCCCTTCAACCACTGGT
GCGACGCTGCACGCAACGCACTACCACTTGGTTGATGTGTTCAAGGTTCAAGACGAACTG
CGTGCTGCCGCGCCGCGGACAGCCTGCGCAACATTCTCACCATTTCACCGCACCAAAAC
ACCAATTGGTCTGAGGAAGAGAAGAAGAGATGGACAACAACCTGCCAGTCCATCCTC
GGATACGTTGTGCGCTGGGTTGAGCACGGTGTTGGTTGCTCCAAGGTTCCAGACATCCAT
GACATCGACCTCATGGAAGACCGCGCAACGCTGCGTATTTCTCGCAGATGCTGGCCAAC
TGGATCCGCCATGATGTTGTCTCGAAGGAGCAGGTCTTGAGTCACTGGAACGAATGGCA
GTGGTCGTGACAAGCAAAATGCGGGCGACGAGGCTACCGCGATATGGCGCCGAAGTAC
GACGCTCCCTCGCCTTCCAGGCGGCTAAGGACTTGATTTTCGAAGGCACCAAGTCCCCA
TCGGGCTACACCGAGCCCATCTTGACGACGACGCCGCGCGAGTTCAAAGCAAAAAAC

>RXN02404-downstream
TAAGCAGCTTTTCGACGCTTAC

>RXN02434-upstream

CTTCAATAGTCAAAACCAGCAAACCTAATTTTTTAAGTTTTACGTAACTGGCCCCACCGCT
TGTGGCAGGCCTTGCGTTTTGACATTGAAGGACCCTTTTT

>RXN02434

ATGCGCACTTTTGGCGCTTATATTGCCATTGATGGCCTCAGCTTTTCCTACCCCAACACC
CACGTTTTTAAGCGATATTTTCGCTCACCGTTGCCAATGGCGATATCGCCGGACTGATTGGT
GAAAACGGCGCAGGAAAAATCCACCCTGCTCAGCCTCATCGCTGGCGTCATGGAACCCGAC
CAGGGCAGGATTTACCTCCCCGAACGCACCGGATTCATCGCCCAAGAAACAGACTTACCG
TTTGAACAACCCGTGCAGTCGCTTATCGACGCCGCGTCGCCCCAGTGCAGCGCGGTTCGAT
GCCGCGATTACAGATTTGTCCACCAAGCTTGGCGACGCCTCCCTCAGCGCCGAAGAGCAG
GCGCAAGTCGCCACAGATTTTCGATGCAGCGCTAGGCGCTGCAGAAGAACTCGGACTGTGG
GAATTAGATGCACGTATTGAAACCATCGTCGCGGGTCTCGGCCTTGCCGAGGTGGATCGC
AGCACTCCCATTTGGTGAGCTTTCCGGCGGTTCAGCGCCGACAGATTTCGATTTGGCAGCGCTG
CTGTTGGAACACACGATGCTCTGATTTTCGATGAGCCCAACCAACCTCGACGACACA
GCCGATGATTTTCTCTCATCTCGGAGATTTCCCGTTTCAAAGGTCCAGTGCTGATCGCCAGC
CACGATCGCTTCTTCTCGACTCCGTCTGTACCGAGTTAATCGACCTCGATCCTGCACTT
GGACCTGAGGGCGGATCCGGCGAAGAAGTAAACAAGCCGTGTCTTTTGGTGGTGGATTT
TCTGAATACATCAAAGAACGCGAGACCCGCCGACCCGCTGGGCTCAGTTGTACACCGCA
CAAGAAACCGAGCGGGAAAACTCGAAGAAACACCGGCACCAACCGAATCGGATATTTTC
CACAGCTCGGTTTCCAAATCGGAAGCTAAAATCACCGCGAAATTTTACGCAGACCGGGCA
GCTAAACTCAAGGCAACCGCGTCCGCTCCGCCAAAAACCGCTGAAGGAATTGGAACGC
TATGAAATCCAGCACCTCCAAAGCCACTGGAATTCCAAGGCATCCCAGAAGCCTCCGGA
AACGGTCACGGTGAAACACTAGAAGTGCGGGCTATTGCTGTGGAACACAGGCTTCAACCC
TTGACTTTCCACATCGATCCCGGCGACCATCTGGTTCGAAGGCCCAACGGTGTGCGGT
AAATCCACCCTGCTGAGCGTTCTGGAAGGCGTGCTTGAACCAACCGAAGGTGAATTGATC
GTCCCCGAAGGGCTGAAAGTTGCGCGCCTGAAACAGGACGATCAGTGACGGAAGAGCAG
TTGAACACCCCGCTCGACGAACTGTTCCGCCCTATCGAAAGGTCCGGTCGGACTCAAC
CTCGTGAGATGGGGCTGTTGAGGGAGACGTCGCAAGCAGCCCGCTACGGGCCCTATCG
CTCGGCCAACGCCGCGCGTCTCGCTCGGGCTCATCCTGGCGAGCCCAACAGATCTTTTG
CTTCTTGACGAGCCCAACCAACCTCTCCCTCGCGCTGAGCGAAGAACTCGAGTCGGCG
ATAGAAAAATTCCCCGGTCGCGTTATTCTGGCCAGCCACGATAGGTGGATCAGAAAACGT
TGGACGGGGAAGAAAATCAGCCTGAGCCGT

>RXN02434-downstream

TAAACCCTACTGAACAGGAACCT

>RXN02461-upstream

AGAAAATCTCAAGGCAAAAAACAAGCCACCCCAATCTGTGCGACAATCAAACCACAGACT
ACGACTATTATGTACGAAGAAACCAAGAAAGGGAATA

>RXN02461

ATGCGCGGACTAATTGTTGACTACGCTGGAGTACTAGACGGAACCGATGAGGACCAGCGT
CGCTGGCGCAACCTGCTCGCCGCAGCAAAGAAAAATGGCGTCGGAACCGTGATCCTCAGC
AACGATCCAGGTGGGCTCGGCGCAGCGCCGATCCGGGAACCTCGAAACAAACGGGGTAGTC
GATAAGGTGCTGCTGTGCGGAGAACTTGGCGTCGAAAAGCCAGAGGAAGCAGCTTTCCAG
GCCGCCGACAGCCATCGACCTGCCATGCGTGACTGCGTGCTTGTGACGACTCGATC
CTCAACGTGCGCGGCGCCGTCGAAGCCGGACTCGTAGGCGTCTACTACCAGCAATTTGAC
CGTGAGTCGTGCAAAATCGTCGGACTGTTCCGGGCTAGAAGGAGAATTC

>RXN02461-downstream

TAATCTTGCGCGTCTACATCCCA

>RXN02480-upstream

ACCTATGACCGCTGTGGCGCCTAGGGTCGACGGGCACGTGCCCCCTCAGAGGCCCGAGCC
GACAGGCCATGCACGCAAGGGCAGCAAAGCATGGTTAATG

>RXN02480

ATGACCACCACCGACCACAAGCAGCTGGGCATTATGTACATCATTATGTCCTTCAGCTTC
TTCTTCCTCGGTGGCTTGATGGCCCTGCTTATCCGAGCGGAGCTTTTCACCCCTGGTCTG

CAGTTCCTGTCTAATGAGCAGTTCAACCAGCTGTTACCATGCACGGAAGTGTATGCTG
 CTGCTGTACGGAAGTCCAATTGTTTGGGGTTTTGCTAACTACGTCCTGCCACTTCAGATC
 GGTGCGCCTGACGTAGCTTTCCACGTTTTGAATGCTTTCGGCTTCTGGATCACCACCGTC
 GGTGGTGTGCGGATGCTGACCGGCTTCCTGACCCCGGGTGGTGGTGGCGACTTCGGTTGG
 ACCATGTACTCCCCACTGTCTGACGCAATTAAGTCCCTGGCTCTGACATGTGG
 ATTGTGGTGTGCGGTGCAACTGGTATTGGCTCCGTTGCTTCCGCAATTAACATGCTCACC
 ACCATCCTCTGCCTCCGCGCACCTGGTATGACCATGTTCCGTATGCCTATTTTCACCTGG
 AATATCTTCGTTGTTTCCGTTCTTGCTCTGCTGATCTTCCCACTGCTGCTCGCTGCA
 CTGGGTGTTCTGTATGACCGCAAGCTTGGTGGACACCTGTACGATCCAGCTAACGGCGGC
 TCCCTCCTGTGGCAGCACCTGTTCTGGTTCTTCGGACACCCTGAGGTTTACGTTCTGGCG
 CTGCCGTTCTTCGGCATTGTTTCTGAGATCATTCTGTGTTCTCCCGTAAGCCAATGTTT
 GGTTACGTCGGCCTGATCTTCGCAACCTTGTCCATTGGTGCCTGTCCATGGCTGTGTGG
 GCTCACCACATGTTTCGTTACTGGCGCAGTTTTGCTTCCGTTCTTCTCCTTCATGACGTTT
 CTGATTTCCGTTCTTACCGGCGTTAAGTTCTTCAACTGGGTGGAACCATGTGGAAGGGT
 CACATCACTTGGGAAACCCCAATGATCTGGTCTGTTGGCTTCATGGCTACCTTCCTCTTC
 GGTGGTCTGACCGGCATTATGCTGGCGTCCCCACCACTGGACTTCCACTTGGCTGACTCC
 TACTTCCTGATCGCGCACTTCCACTACACCCTCTTCGGTACCGTGGTGTTCGCATCGTGT
 GCAGGCGTTTACTTCTGGTTCCCGAAGATGACTGGCCGCATGATGGACGAGCGTCTTGGC
 AAGATCCACTTCTGGTTGACCTTCGTCGGTTTCCACGGAACCTTCCTCATCCAGCACTGG
 GTGGGCAACATGGGTATGCCACGTCGTTACGCTGACTACCTGGATTCTGATGGTTTACC
 ATCTACAACAGATCTCCACCGTGTCTACTTCTGCTTGGCCTGTCTGTCATTCCATTC
 ATCTGGAACGTCTTCAAGTCTTGGCGCTACGGTGAGCTCGTTACCGTTGATGATCCTTGG
 GGTTACGGCAACTCCCTGGAGTGGGCAACCTCCTGCCCTCCTCCTCGCCACAACCTTCGCA
 TCCTTGCCCTCGTATCCGCTCCGAGCGCCCTGCGTTGAGCTGCACTACCCGCACATGATT
 GAACGCATGCGCGCAGAGGCACACACTGGACATCAGATGATATTAATGCTCCAGAATTG
 GGTACCGCCCCAGCCCTTGATCTGACTCCAGCCGC

>RXN02480-downstream
 TAAAAGCGTCTGATTTAAGTCGG

>RXN02554-upstream
 GCTTTTGAAGTGTGTGCGGTGTGCGGACTGAAATAGTTTCCGCTTCAACTTGGTTGCTAA
 GGATAGGCTCCATAAAAAATAACCAAAGGCGGAAAATTTCA

>RXN02554
 ATGTACACACTAAGCCATCCATTGCCATCCTCGGTGCTGGCCGAGTGGGTTCCTCACTT
 GCCAGGTACGCGGTGCGCGCAGGCTATGAGGTAAAGGTTGCTGGTTCAGGTGCTGTGGAC
 AAAATCGCTCTTACCGCTGAGATCCTTATGCCCCGCGCGGTTCCAAGCACTGCTGACCAG
 GCTGTAAAGGATGCAGATATTGTGTTCTTGGCTGTTCCCCTGCATAAATTCGCGAGTGTC
 AATCCAGCCACTTTAGAGGGCAAGATCGTTATTGACACGATGAACCACTGGGTTCGGGTC
 AATGGTGAGTTGGAGGAAATTGATCAGGATCCGCGCAGCACTTCGGAGATTATTGCGGAG
 TTTTTCGCGGGATCAACCATGGTGAAGTCTTTTAAACACATTGGTTATCACGAGATTGAG
 CAGGATGCGGGTACCGGGCTGCGATTGCGTATGCCACGGATGATGTGGATGCAGGTGCC
 CAGGTTGCACAGCTAATTAAGAGTTTTGGGTTTTGTTTCTTTAAATATTGGCGCATTGGAA
 AACGGCCGTATTCTGGAACCTGGCCAAGAAGCTTTCGGCGCGCACCTTAATAAGATTGCG
 CGCCTAGAACTTGTTAATCAGCGG

>RXN02554-downstream
 TAGTACCTCGATCTTCAGCCAAC

>RXN02556-upstream
 TGCCATCATATTAAGGCCAAATTGCTTGGATCCTGGGATTTATTTAATTAGATTAAATCC
 GTAGAAATTAGCCCATGAAGCATGGAAAGGCGAAAACCCC

>RXN02556
 TTGATCGTTTCCACCCAGCCATTACTGATCGCAGCGCACTCTCGGCAGAACACGCAGAG
 GTGATCAAAGCAACGCTTCTCTCGTGGGCGGCAAGATTAATGAGATCACGCCGTTTTTC
 TACAACAAGATGTTTTCGGGCTCACCCAGAATTGATCGCTAACACCTTCAACCGTGGCAAT
 CAGAAGCAAGGCGATCAGCAGAAGGCGCTGGCGGCTTCGATTGCAACGTTTGCCACCATG
 CTCGTTACTCCTGATGCTCCTGACCCAGTTTACGCTGCTGTCCCGCATTTGCCACCATG
 GTGTCCCTCGGCATTACTGCTGATCAGTACGACATTGTTTACGAGCACCTGTTTCGCCGCA

ATCGTTGAGGTTTTGGGAGCGGAACTGTCACCGCACCTGTCGCTGAAGCCTGGGATGCT
GTCTACTGGATCATGGCAAATGTGCTGATCGGTTTTGAGAACAACCTTTATGCTTCCAAC
GATCTGGAGCCTGGCGACGTCTTCCGCGAAGTCACCGTGACCGCGAAGAAGCAGCTCAGC
GCAACCGTCTGGGAATACACCTGGCAGGTGAGCTGGTTGCCCCAGAGCCAGGTCAGTAC
ACCTCCATCGGAGTAGTGCTTGACGACGGCGCCGCGCCAGCTGCGCCAGTACAGCTTGCTC
GGCGGCTCCGACACCGAGTACCGCATTGCGGTTGAGGATAACGGCGAGGTTTCTGGATTG
CTGCGTGATCGCGTATCCGTTGGTGACAAGATTGAAGCCACCATCGCGGCCGCGACCTG
GTTCTTAACAAGGACACCAATCCAGTTGTGCTGATTTCCCAGGGCATCGGCTCCACCCCA
ATGGTGGGCATGCTCGCAGGTATGAACCCTGAACGTGACGTTGTGGTTTTGCATGCTGAC
CAGGCCGAGTCCACCTACGCGCAGGTGGAGGAAGTGCAGGGGCTCGTCGAAAAGCTCCCT
AAGGCTGCGTTTTGAAATCTTCTACCGCGACAACGACAGTGGCTCGAGGTCGCTGGCCGC
ATTCCATCAGGTGCGTCCGTGTACCTGTGCGGTGGCGTGGAATTCTGAAGAACGTGCGT
GAGCAGATCGAGGCGCTCGATGAGCAGCCTCGCGACGTAAACTTCGAGCTCTTCGCACCA
AACGACTGGCTGATTTCC

>RXN02556-downstream
TAAGCCCACACCCAGAACTTCC

>RXN02560-upstream
TTGGGGCAAGCCAGCTAACGCATTTCTTGTGGAAACCGCAGACATTGAGGCCGCCACGC
GGAATTCTAAGAGCAGTGGAATGAAATAATCCGGTGCTG

>RXN02560
ATGCAGGGCAACTCGCTTAATCTGGCAGACAACAGCGAGAGAAAGAAGCCCATGCCGTCA
CCAGGAGAACCTTTAGCCGCCGCTACGGACAACCTGCAACCTGGACGCCACCGCAGTGG
AATGAGACGCTTGATGTCAATCACCAGCATCGATCAGTTCGCAGGTGGTTGGATAAACCG
GTTGATGATGACACCATCCGCACCATTAATTTCCGCCGACAATCGGCTGGAACCTCTTCC
AATAAGCAGGTCAATTTCTGTCACTCGTGGTTAAAGATCCTGAGCTGAGGAAAGGCCTCGCG
GGGATCACTCGCCAGATGTTTCCGCACCTTGAGCAGGTTCCCGCGGTGCTGATTTGGTTG
ATTGATTATTTCCGAATCAGTGCGGTGGCAGCCAGAGAAGATCTCCCAACAGGGGCTCTT
GATTATCTCGATGAGGCCGCGTGGGGGTTCTCGACGCCGGAATCGCAGCTCAAAACGCT
GCAATTGCTGCGGAGTCACTTGGAATGGGAACGCTCTATTTGGGTTCCGTGCGCAACGAT
GCGGAAGCCGTGCACAAATTGCTTGGCCTTCCACCTGAGATCGTGCTGCTGCGTGGGCTTG
GAAATGGGGCATGCGGATCCGCCTGAACCTGCCGGAATTAACCTCCCTGCCACAAGAA
GCCATTGTTTACGTTGGGATACCTACCGGAGAAAAACCTCGAACTTATCGATTCTTACGAC
CGCGCCCTCGACACTTACTATTCTCGCTACGGCCAGCACCAGCTCTGGTCTGAAGCAGACG
GCGCATAGGGCGGCGTCTGAAAAGCTTTTCAAAAACCAACAGGCAGTTCTTAGGGGCGTG
TTTGAGCGCGCCGGGTTTGGGCTGAGA

>RXN02560-downstream
TAAAAGCATGATTATGGACGCCT

>RXN02591-upstream
ATGTGTCCGTTGTCTACCTAAAGTTTTAACTAGTTCTGTATCTGAAAGCTACGCTAGGG
GGCGAGAACTCTGTGCAATGACACAAAATCTGGAGAAGTA

>RXN02591
ATGACTACTGCTGCAATCAGGGGCCTTCAGGGCGAGGCGCCGACCAAGAATAAGGAACTG
CTGAACTGGATCGCAGACGCCGTCGAGCTCTTCCAGCCTGAGGCTGTTGTGTTCTGTTGAT
GGATCCCAGGCTGAGTGGGATCGCATGGCGGAGGATCTTGTTGAAGCCGGTACCCTCATC
AAGCTCAACGAGGAAAGCGTCCGAACAGCTACCTAGCTCGTTCCAACCCATCTGACGTT
GCGCGCGTTGAGTCCCGCACCTTCATCTCCGAGAAGGAAGAAGATGCTGGCCCCAAC
AACAAGTGGGCTCCACCACAGGCAATGAAGGACGAAATGTCCAAGCATTACGCTGGTTCC
ATGAAGGGGCGCACCATGTACGTCGTGCTTTCTGCATGGGTCCAATCAGCGATCCGGAC
CCTAAGCTTGGTGTGACGCTCACTGACTCCGAGTACGTTGTGTCATGTCCATGCGCATCATG
ACCCGCATGGGTATTGAAGCGCTGGACAAGATCGGCGCGAACGGCAGCTTCGTCAGGTGC
CTCCACTCCGTTGGTGCTCCTTTGGAGCCAGGCCAGGAAGACGTTGCATGGCCTTGCAAC
GACACCAAGTACATCACCCAGTTCCCAGAGACCAAGGAAATTTGGTCTACGGTTCCGGC
TACGGCGGAAACGCAATCCTGGCAAAGAAGTGCTACGCACTGCGTATCGCATCTGTCATG
GCTCGCGAAGAAGGATGGATGGCTGAGCACATGCTCATCCTGAAGCTGATCAACCCAGAG
GGCAAGGCGTACCACATCGCAGCAGCATTTCCATCTGCTTGTGGCAAGACCAACCTCGCC

ATGATCACTCCAACCATCCCAGGCTGGACCGCTCAGGTTGTTGGCGACGACATCGCTTGG
CTGAAGCTGCGCGAGGACGGCCTCTACGCAGTTAACCCAGAAAATGGTTTCTTCGGTGT
GCTCCAGGCACCAACTACGCATCCAACCCAATCGCGATGAAGACCATGGAACCAGGCAAC
ACCCTGTTTACCAACGTGGCACTCACCGACGACGGCGACATCTGGTGGGAAGGCATGGAC
GGCGACGCCCCAGCTCACCTCATTGACTGGATGGGCAACGACTGGACCCAGAGTCCGAC
GAAAACGCTGCTCACCTAACTCCCGTTACTGCGTAGCAATCGACCACTCCCGAGCAGCA
GCACCTGAGTTCAACGACTGGGAAGGCGTCAAGATCGACGCAATCCTCTTCGGTGGACGT
CGCGCAGACACCGTCCCCTGTTACCCAGACCTACGACTGGGAGCACGGCACCATGGTT
GGTGCATGCTCGCATCCGGTCAGACCGCAGCTTCCGCGAAGCAAAGGTCGGCACACTC
CGCCACGACCCAATGGCAATGCTCCCATTCATTGGCTACAACGCTGGTGAATACCTGCAG
AACTGGATTGACATGGGTAACAAGGGTGGCGACAAGATGCCATCCATCTTCCTGGTCAAC
TGGTTCCGCCGTGGCGAAGATGGACGCTTCTGTGGCCTGGCTTCGGCGACAACCTCTCGC
GTTCTGAAGTGGGTTCATCGACCGCATCGAAGGCCACGTTGGCGCAGACGAGACCGTTGTT
GGACACACCGCTAAGGCCGAAGACCTCGACCTCGACGGCCTCGACACCCCAATTGAGGAT
GTCAAGGAAGCACTGACCGCTCCTGCAGAGCAGTGGGCAAACGACGTTGAAGACAACGCC
GAGTACCTCACTTCTCTCGGACCACGTGTTCTCTGCAGAGGTTTCACAGCCAGTTCGATGCT
CTGAAGGCCCGCATTTTCAGCAGCTCACGCT

>RXN02591-downstream
TAAAGTTCACGCTTAAGAACTGC

>RXN02596-upstream
AAGGTATCTGGGTGTGGATATGCCCTGCTAACTGGAGAACTTGGCCCGATCGGGTGTCT
GAAATTTCCGCAACGCCGAATGTAAGTTAGTGTCAATGC

>RXN02596
ATGACGGAATCGAAAAATTACGACTTAATCGTTGTAGGCTCCGGCCTCTTCGGGGCTCAC
GTGGCTGAGCGTGCAGCTAGCCAGCTGGGTAAGAAAGTCTCATCGTTGAACGCCGCTCG
CACCTCGGTGGCAATGCTTACTCTGAAGCAGAACAGAGACCGGCATTGAAATCCACAAA
TACGGCGCGCACCTCTTCCACACCTCCAACACACGCGTGTGGGAATACGTCAACCAGTTC
ACCAGTTTTACCGGCTACCAGCACCGCGTCTTCGCAATGCACAACGGCACCGCCTACCAA
TTCCCCATGGGACTGGGCCTGATTAACCAGTTCTTCGGCAAGTACTACAGCCCAGATGAA
GCCCGTGAGCTCATCAAGGAACAGTCTGCAGAAATCGATTCTCCGACGCCACCAACCTC
GAAGAAAAGGCCATTTCCCTCATTGGTCGCCCACTTTACGAGGCATTTCATCCGCGACTAC
ACCGCAAAGCAGTGGCAGACTGATCCAAAGAACCTCCAGCCGGCAACATCACCCGCTG
CCAGTTCGCTACAACCTTCAACAACCGCTATTTCAACGACACCTACGAAGGCCTTCCCACA
GACGGCTACGCGGCATGGTTGGAAGATGGCAGAGCATGAGCTTATCGACGTCCGCCTC
GACACCGACTGGTTTCGACGTTTCGCGATGACCTCCGCGCAAGCAACCCCGACGCACCTGTG
GTCTACACCGGCCCACTCGACCTCTACTTCAACTACGCAGAGGGCAAGCTGGGATGGCGC
ACCCTCGACTTTTGAAACCGAAGTAGTAGAAACCGGTGACTTTCAAGGAACCCCAAGTATG
AACTACAACGATGCGGACGTACCTTTACCCCGCATCCACGAGTTCGGTCACTTCCACCCA
GAGCGTATGACAGTTACCCCAAGGATAAGACCGTCATCATGCGCGAGTTCTCCCGTTTC
GCAGATAACGAGGATGAGCCTTATTACCCAATCAACACTCCAGACGACCGAGACATGCTG
AAGCAGTACCGCCTTCTGGCTGCTGAAGAGGCTGCTAATAATAAGGTGCTGTTCCGGCGGT
CGACTGGGCACGTACCAGTACCTCGACATGCACATGGCTATCGGTTCTGCGCTGAGCATG
TTTGACAACAAGCTGGTGCCGTTCTTTGAAGAAGGCACACCGCTAGAGCAGGAACGCGGA
CAC

>RXN02596-downstream
TAAAAGGAAGGGCATCTCCCA

>RXN02654-upstream
TATTTTCGGAATTTATACAGCAATCCTCGAAATCCTAATAAAGATCCCTTATCGTGGGA
GAGGTACGGTAGTTCGTTTCGAGGACAACGTCGAGAAAGGC

>RXN02654
ATGATTTTATTGCTAAATGATCCACGTACGCTATTCCCGAAAGTCGATCCCCCAAAGCAA
AGCCAGCCGGAACAGGCCTAGATATAAACTTTCCCCCAAGCCGATATTGGTCTCTCC
AGCTATCAAGGAAGTGAAGGCTTAAGGGCCGCAAGGCTCTTATTACTGGTGGCGATTCT
GGGATTGGAGCTGCCGTAGCAATCGCTTATGCTCGCGAGGGGGCAGATGTTGCGATCGCT
TACTTGCCCGAAGAACAAGCCGATGCTGACAGAGTGCTCCAAGCAATCGAGGAAACAGGT

CAAAAAGCTTTTCTTTCCCTGGTGATCTCCGTGATCCAGAATACTGTCGCTCGCTGGTC
 CAAGAGACGGTGAACGCTTTAGGTGGCCTAGACATCTTGGTCAACAACGCGTCACGTCAG
 GTGTGGGCACCTGGTTTGACCGAAATTACCGACGAAAACCTCGACCAGACTTTGCAGGTT
 AACCTCTATGGTAGTTTTCGGGTACCAAAGCAGCTATACCTCATCTGAAGCCCGGATCA
 TCGATAATCTTTACATCGTCCATTACAGGCGTACCAACCTTCGGAAACCTCTTGGATTAC
 GCCATGACTAAGGCGGCATTGAACAATTTGTCAAAGGGCTTGGCAAGTAGTCTGATAGGC
 GATGGCATTTCGGGTAAATTCTGTAGCCCCAGGTCCTTTCTGGACGCCGTTGCAACCCAGC
 CATGGTCAGCCACAAGAGAAAATAGAAGGATTTGGCCAGCACGCTCCGATTGGAAGAGCG
 GGTACACCTGTTGAGTTGGCAGGTGCGTACGTTTTTCTCGCTTCTGACGAAGCCAGCTAT
 GTGGTAGGAGAAACCTGGGAGTCACAGGTGGGACGCCCCACCCA

>RXN02654-downstream
 TAGTCGGTACAAGCGGAATCACT

>RXN02674-upstream
 ATCGACCTCTAGGGCAGCAGTGATTGATTTTATAAAAAATCACAAGTTTGTAATAAAGGT
 ACAGTTGGTGAAGTATCCACAATCAACTTTAGGAGACCTT

>RXN02674
 GTGACTGCAACATTTGCTGGAATCGACGCCACCAAACACCTCATCGGAGGTCAGTGGGTG
 GAGGGAAACTCGGATCGAATTTCCACCAATATCAATCCTTACGACGATTCCGTAATCGCC
 GAAAGCAAACAAGCTTCCATTGCTGATGTTGATGCCGCGTATGAAGCCGCGAAGAAGGCC
 CAGGCTGAGTGGGCAGCTACGCCCCGCTGCGGAACGATCTGCCATCATCTACCGTGCGGCT
 GAACTTCTTGAAGAGCACCGGGAGGAAATCGTGGAAATGGCTGATCAAGGAATCCGGCTCG
 ACGCGTTCCAAGGCTAATTTGGAAATCACTTTGGCAGGAAACATCACTAAAGAATCGGCT
 TCATTCCTGGTCGTCGATGGTCGAATTTCTCCTTCAATACTCCGGGCAAAGAAAAAC
 CGTGTGTACCGCGTAGCCAAAGGGCGTTGTGCGAGTGATTAGTCCATGGAATTTCCCACTG
 AACCTCTCGATCCGCTCGGTTGCTCCGGCACTAGCCGTGGGCAACGCCGTAGTGATTAAAG
 CCTGCGAGTGATAACCCAGTTACTGGTGGTGTAATTCCTGCACGAATCTTTGAGGAGGCC
 GGAGTTCTGTCAGGCGTGATCAGCACGGTTGCGGGCGCAGGATCTGAAATCGGTGATCAC
 TTTGTACCCACGCCGTGCCAAAGCTGATTTCTTTACCGGTTCAACCCAGTCGGTTCGT
 CGTGTGCGGTGAGCTGGCAATTAATGGTGGACCAATGAAAACCTGTTGCACTAGAGCTCGGT
 GGCAACGCGCCGTTTCGTTGTGCTTGCCGACGCCGACATCGACGCCGCTGCCAGGCTGCC
 GCAGTTGGCGCTTTCTACACCAGGGACAGATTTGTATGTCAATCAACCGAGTCATTGTT
 GATGCTGCAGTTCATGATGAATTCCTAGAGAAGTTTCGTTGAAGCAGTGAAGAATCCCA
 ACCGGCGATCCAAGCGCAGAAGGAACCTTGTGGACCTGTCATTAATGACAGTCAGCTC
 AGTGGTTTGAAGGAAAAGATCGAGTTGGCCAAAAGGAAGGCGCAACCGTCCAGGTTGAA
 GGGCCAATTGAAGGCCGACTGGTTCATCCGCATGTGTTCTCTGATGTCACCTCTGACATG
 GAAATCGCTCGTGAGGAAATCTTCGGACCTCTCATCAGCGTGCTGAAGGCCGATGATGAG
 GCACACGCAGCAGAGCTGGCCAATGCTTCCGACTTTGGTTTGAGCGCGGCAGTGTGGTTCG
 AAGGATATTGATCGTGACGCCAGTTTGCTCTGCAGATTGATTCCGGCATGGTTCACATC
 AATGACCTCACCGTCAACGATGAACCACACGTGATGTTCCGGTGGTTCAAAGAACTCTGGC
 CTCGGCCGCTTCAACGGCGATTGGGCGATCGAGGAGTTCACCACAGATCGATGGATCGGC
 ATCAAGCGCAGC

>RXN02674-downstream
 TAATTGTTTTTCGACGTAACCCC

>RXN02675-upstream
 AAGTGTTTTATTGGAACACTTGCGCTGCCAACTTTTTGGTTTACGGGCACAATGAAACTG
 TTGGATGGAATTTAGAGTGTTTGTAGCTTAAGGAGCTCAA

>RXN02675
 ATGAATGAGTTTGACCAGGACATTCTCCAGGAGATCAAGACTGAACTCGACGAGTTAATT
 CTAGAACTTGATGAGGTGACACAACTCACAGCGAGGCCATCGGGCAGGTCTCCCCAACCC
 CATTACGTTGGTGCCCGCAACCTCATGCATTACGCGCATCTTCGCACCAAAGACCTCCGT
 GGCCTGCAGCAACGCCCTCTCTGTGGGAGCTACCCGCTTGACTACCACCGAACCAGCA
 GTGCAGGCCCGCCTCAAGGCCGCCGCAATGTTATCGGAGCTTTTCGACGGTGAAGGCCCA
 CTTTATCCACCTCAGATGTCGTCGATGCCTTCGAAGATGCCGATGAGATTCTCGACGAG
 CACGCCGAAATCTCTTGGCGAACCCTACCGGATACTCCATCCTGCATCATGGTCACC
 CTGCCACCGAAGCCGCCACCGACATTGAACCTGTCCGTGGCTTCGCCAAAAGCGGCATG

AATCTAGCTCGCATCAACTGTGCACACGACGATGAAACCGTCTGGAAGCAGATGATCGAC
AACGTCCACACCGTTGCAGAAGAAGTTGGCCGGGAAATCCGCGTCAGCATGGACCTCGCC
GGACCAAAGTACGCACCGGCGAAATCGCCCCAGGCGCAGAAGTAGGTGCGGCACGAGTA
ACCCGCGACGAAACCGGAAAAAGTACTGACGCCCCGAAAACCTGTGGATCACCGCCACGGC
TCCGAACCAGTCCCAGCCCCCGAAAGCCTGCCCGGTGCCCCGCTCTGCCGATTGAAGTC
ACCCCAAGATGGTTCGACAAACTAGAAATCGGCAGCGTCATCAACGTCCCAGACACCCGC
GGATCCCGCGGAGCATTACCGTGACCAGGGTTTTTGATGGCGCGGTCTCGCCGAAGGC
CCACAAAAGCCTACATCTCCAACGGCACCCCTCTGGAACACAACCTACGACCGTCCCAGG
GTCTACGGCATCCCCGCGTAGTTTCAGCGCATCAACCTCAAAGTCGGCGACCGCCTCATC
CTTACCAGCAAGAAGTACCTACGATCCATCCCTCGGATCCGGCCGCACACCACGCATC
AGCTGCACCCCTTCCACAAGCAGTCGATGCAATTAAAGTCGGGCACCGCGTGCTTTTCGAC
GACGGAGCCATCGCCGCGAGTCTGCATCGACAAGACCTCCACTGCCGACGGCCACAACGAC
GTAGAATTGGAAGTCAACACGCCCCGCCACAAGGCGTAAACCTGGCCGCATACAAGGGA
ATCAACCTCCCAGACTCCGAACTTCCACTCCCAAGCCTCACTGAAGAAGACCTCCAACAC
CTGCGCTTTGTGCTCAAATACGCCGACATCGCAGCCATCTCCTTCATCCGAAACGTCGCC
GACGTGGAATACCTCCTCCAAGCACTCGCCGACATCGGAGATCCAGTAGCCGTCGAACGC
CTTGGCCTCGTCCTTAAATCGAGACCATCCAGGCTACGAAGGCCTCGCCCAAATCCTC
CTGACCGGCATGCGCCACGAAAACCTTCGGCATCATGATCGCCCCGCGGAGACCTCGCCGTC
GAACTCGGCTTCGACCGCATGGCAGAAGTCCCCCAACTGATCATGGCCCTTGCCGAAGCC
GCCCACGTCCCAACCATCTTGCCACCCCAAGTCTTGAAAACATGGCCAAAAACGGACTC
CCATCTCGCGCAGAAATCACCGACGCAGCAATGGCACTTCGCGCTGAATGCGTCATGCTG
AACAAGGGACCACACATCAACGACGCCATCAAGGTCCTACCGAAATGAGCCGCAAACTT
GGTGCATCCCAACGAAAGAGTAGGCTGCTGCTGCGCAAGGTGAAGAGCTGGGAAGAG

>RXN02675--downstream
TAACTCACAAAGGCGATTGGCGT

>RXN02688--upstream
GTGCGGAAGACAGCAGCCCCAAACCGACCAACTAGCTAAGCTACACAAGGCGGACGAAT
GGGTTTCGCGCAGCAAGCGAAGGAAGGAACTTAACTAGCC

>RXN02688
ATGGCCGGCCGGATTATTTTGCTACGACACGGGCAGACTCACAACAACGTCAAACACCTC
CTGGACACCCGCCCCACAGGAGCTGAACTCACCGACCTGGGCCGTAAACAAGCCCTTGAA
GTTGGCCACGAAGTAGCCACCTACTCCGGTGAGCGCCTCGCCCATGTGTACAGCTCCATC
GTGTTGCGCGCCCAACAAACCGCCGTGCTTGCCACCTCTACCTTTGAAAAAGCTCGCGAC
ATGCAGTCCGGTGCGATTCCACTCGACGTTGTGGAAGGCATTAGGAAATCAACGTCCGC
GACTTTGAAATGCGCGGCGATGAAGAAGCCACATGAATTACTCCCGCGCACTCAACGGC
TGGCTTCACGGGGATCCTGCCGCTGGTCTTCCCGCGGTTGAGACCTACAAAGACGTGCTG
AACCGCTACCAGCCGACTCTTGATCGAATCATGGACAGCCACGACCTTGACGACGACCGC
GACGTTGCCGTTGTGAGCCACGGCGCCGTCATCCGCATCGTGGCAACACACGCAACTGGT
GTGGATCCCAACTTTGCGTTCAACACCTACCTGGGCAACTGCCGCTTCGTGGTGCTGGAG
CCAAACGGTAAGAAATTAGCCAATGGGATGTTGTGCGCTGGACTGACAGCCCACTGCCA
TGGCAGGAG

>RXN02688--downstream
TAATTGAGACCAAGGCTCGGAT

>RXN02765--upstream
TCTGAACTTTTCCGCATCGACCCAGATGAGGTTTACCCCGACGACGACCCACCTGCGAA
TTCAACCCATGGCCGTATCTTCGCGGATTTTAGGAGATAA

>RXN02765
ATGTCTAATCAATTACCCGATCACGTCCGCGACGCCTTCCAAGTAGGTGCGGGACCTGCC
GAACAACTCGGTCAAGCTTGGGACTTCGGATTCCGCGTCGGCAACACTGTGTTGCCCAA
GTGACGGCGCCGGAAGTGTGCGGCTGGTTCGTCGAAAACCCGCGAAACCTGAAACCAGAA
GGCGTGCGCGTCGTACGACCGATCCGCTCCACCGACGCGCGATTTGTGGTTGCGGGGTGG
CGCGCATCGGTGTTCTCTACGGGAACGATCAGCAAGCGAGTCGATGAGACGGTCGTTGCC
GGTCTTCGTTTGGCAGATGCATTAGTGGATACGCATGCACCGGAACCTGTGGACAATGTG
TTTAACCGTGCTGATGTGCAGGCCCTGGGAAGAGCAGCCCGGTGCAATCGGTGAATTGTTG
GAGCCGATTAATCGCGTGAACCAGGTTGGTTCATGCGGATATGTTGGCGACAACGCTGTAT

GCGGGAACCTCAGCCACCTGCAGTGACGGATTTGGTGCCAGTGCTGCGTCCGCATGGTTTC
 ACTGCGGCATTGGTGATCGTTGATGGGTGCTGCTGGGTGCGGTTGATGAGGGAATTCTG
 CGGAGGTTTTTCGCATTTGCCGAAATTGAGCAGCTGGTTTTGAGGGCATTTTTGTTCGGT
 CGAAACTTGCAGGAGTTCTCTGAGAACAACGATCCGAATGTTATTTTGAACCTAAACAGG
 GTGGAATCGACACTCGTGTCGTATGTTTCTGACAAGATT

>RXN02765-downstream
 TGAGGTATGTCGGAATACAAACC

>RXN02803
 GTCTCTGGAGAGATGCTCGCGGCAGCACTTTTCAGCAGGCATGGCCAGCCAGGGTGTGAT
 GTCATTTCGTGTTGGTGTCATCCCAACCCAGCTGTTGCATTCTCACCAGATGATTATGGC
 GCTGACATGGGCGTGATGATTTCTGCATCCCACAACCCAATGCCGGACAACGGAATCAAG
 TTCTTTTTCTGCAGGTGGACACAAGCTTCCAGACCATGTGGAAGACGAGATTGAGCGTGT
 ATGGACAGCTTGCCAGCAGAAGGCCAACAGGGCATGGAGTTGGCCGTGTCATCGAAGAA
 GCAACCGATGCACAGGACCGTTACCTAGAGCACCTGAAGGAAGCTGTTCTTACGTCACCT
 GAAGGCATCAAGATTGTTGTGGATGCAGCCAATGGTGCGGCAAGTGTGTAGCTCCAACG
 GCTTATGAGGCTGCGGGTGCAACTGTAATTGCTATTGATAACAAGCCAGACTCATACAAC
 ATCAACATGGACTGCGGTTCCACCCACATTGATCAGGCGCAGCCGCCAGTCTTGAAGCAC
 GGTGCTGACCTTGGACTCGCGCATGACGGTGATGCTGACCGTTGTTTGGCTGTGAACAAG
 GATGCCAACCTTGTGATGGTGACCAAATCATGGCGCTGTTAGCCATTGCGATGAAA

>RXN02803-downstream
 TAAAACGGCGAGCTGCGCAAGAA

>RXN02821-upstream
 AAGTCGCCCAGATAGCGAGCGGACCACTCGGTCAACTGAATAACCCCACTAAACACTTCA
 CAGCCCGAACACACGGGCACCAGAAAGGGAACGACACCTC

>RXN02821
 ATGAACGAGATCATCCTGGCACAGGACGCAACCGAGTCCACCATCACCGGACTTGGCGCT
 GTCGGCTACGGCATCGCAACCATCGGACCTGGCCTCGGCATCGGCATCCTGGTTGGTAAG
 GCTCTCGAGGGTATGGCACGTCAGCCTGAGATGGCTGGACAGCTCCGTACCACCATGTTT
 CTGGGCATCGCCTTCGTTGAGGCCCTGGCACTGATCGGCCTGTTGCTGGCTTCCTGTTC

>RXN02821-downstream
 TAATCAGCTAACTTAACCGAAAAG

>RXN02829-upstream
 TTTTTCGTTTAACTCATATTTAAACACGTTCTTTTAAATTGGTTTTATAAATTGATAAA
 CTGAATTGCTCAGTTAAAGTGATCGAAAGGAGACTGGAC

>RXN02829
 ATGCAAAAAAATATTCTAAAAAGTGGCATCGAAATTTCTGAACTTGGGTTAGGTTGCATG
 AGTTTAGGCACAGATTATAAAAAAGCGCAACCAATTATTGAAAGTGCAATTGATAATGGT
 ATTACGTATTTTGATACTGCAGATATTTACGATCAAGGAGTTAATGAAGAAATTGTTGGT
 AAAGCCTTAAAAAATATCAAAATCGTGATGACATCGTTATCGGAACTAAAGTTGGAAAT
 CGATTAACCTGACGATGGACATATGACGTGGGAT

>RXN02920-upstream
 TGCATGCAGATTATCTGTCCAACCTACGCCAGCCGCGCGTAAAGCGCGGGCCTGCTGGTGG
 CGGGTGGCGTCGAAAAGCATTTTTAAAGGAGTTTAAGACG

>RXN02920
 ATGAAGTTTGTTATGTATCCGCATTTGTGGGAGTCCACGACCGCTGTCATTGAGGGTGGC
 GGACATGAGCGGGTTGAGGATATTAAAGATGCAGACTTCATTTCTTTAATGGTTCAGCG
 CCGGAGTTCCCGGATTTGCCGGAACATCAAGTTCGTGCAGGCCTCCATGGCGGGTATT
 GATGCGCTGGTCAAGCGTGTTGTCGTCAATGAGAAGGCACGTTGGGCAAAACGCGGCTGGC
 CTGTACGCTGACACCGTTGCTGAGTCCACCATTTGGTTTAATTCTGGCGCAGATGCACATG
 CATGCGACGACTCGTTTGGCTAAGTCGTGGAGCGTGCGGCCTGAGGTGGAAAACAACAAG
 TCATGGCTGCATGACAATAAACTGTCGCTATTTTGGGCGCCGGTGGCATTTGGCGTGGCT

CTGCTGGAAATGCTCAAGCCGTTCAACGTGAAGACCATTGCGGTTAATAACTCTGGTCGT
CCGGTGGAAAGGTGCAGATGAAACCTTCGCCATGGATAAGGCTGAGCACGTGTGGGCTGAG
GCTGATGTGTTTGTGCTCATCCTGCCGCTGACTGATGCCACTTATCAGATCGTCAATGCA
GAACTTTGGGCAAGATGAAGCCTTCTGCCGTGGTGGTCAATGTGGGGCGTGGCCCCGTG
ATCAACACCGATGATCTGGTGGATGCATTGAACAACGGCACCATTGCGGGTGTGCGCTG
GACGTTACCGATCCTGAGCCACTTCCTGACAGCCACCCGCTGTGGGAGATGGACAATGTG
GTTATCACTCCTCATACTGCAAACACGAATGAGAGGATTCTGTGCTTTGACCGGCGAACTC
ACCTTGCGCAACATTGAGTTGTTTGAGGCAGGCGAGCAGATGGCCACCGAGGTCGATGTG
GTGGCTGGCTAC

>RXN02920-downstream
TAGGCCTTTTATGGTGTGATCCG

>RXN03014
TACGTTGGTTTTCGAAGTGCTGCTGGTGGCGTCATACGTGCTGCTCACCTTGGGTGCATCG
CCGGCAGGTGTACGTTCCGGCGTGGGTTACGTGATGGTGTCCATGGCGTCATCGATGGTG
TTCCTGTTTGGACTCGCAATGGTTTACGCCTCAGTGGGCACGTTGAACATGGCTCACGTT
GGCCTACGCATGGAAGATGTTCCGCTCTGGAACCTCGCTCCGCGATCTTCGCAGTGTTGCTC
GTGGCATTTCGGTATTAAAGCTGCCGTGTTCCCCCTAGATTCTGGCTGCCGGACTCCTAC
CCCACCGCGCCATCGCTGGTCACCGCGGTGTTTCGCAGGTCTGTTGACCAAGGTGGGTGTG
TATTCCATCATTCGAGCACGCTCGATTATTTTACCGATGGATCCCTTGACACCATGCTG
ATGTGGGTGGCACTCGCCACCATGCTCATTGGTATTTTGGGCGCGATGGCGCAAAACGAT
ATCAAACGTTTGTGTCAATTTACTCTGGTCAGCCACATCGGCTACATGATCTTCGGCGTA
GCCCTTGGATCTGCACAGGGTTGTCTGGTGGCATCTTCTACGCAATCCACCACATTCTG
GTTGAGACTTCCCTGTTTCTGTTGGTGGTCTGGTGGAACGCCAAGCCGATCCTCCTCG
CTGCGACGCCTTGGATCCCTGGCATATATCTCCCCACTTCTTGCGATTTTGTACTTCATC
CCCGCCATCAACCTGGGTGGTATCCCACCGTTCTCCGGCTTCTGGGCAAGATCATGCTC
ATCGAAGCCGGCGCCCGAAGATGGCAGTTGGCTGGCATGGGTCTTATCGCAGGCGCCGT
TGTCACCTCACTGCTCACCTTGTACACCATGGTTCTGGTCTGGTCCAAGGCCTTCTGCG
CGACCG

>RXN03014-downstream
TAAAGACGCCCCCGATGGAGCAA

>RXN03015-upstream
CCGGGTTTGCCTGAGGTTTGGAGCGCAATCTGGAAAATGGTGCCTGAACTTCACTACT
GATTATGCGGAGGCTGCGGCTTTCGCGCAGGTGCATTTCT

>RXN03015
TTGGGCGTGGGTACTCCTCAGCAGAAGGGTACTTATGCGGCGGATCTGACGTATGTTCTG
CAGGTTGTTGAGGATTTGGTGCCGCTGCTTGAGGGCGAGCACATTATTTTCGGCAAGTCT
ACGGTTCCGGTTGGTACTGCTGAGCAGTTGCAGGAGCTTGCTGATTCTCTGGTCAAGCCT
GGTTCGCAGCTGGAGATCGCGTGGAATCCGGAGTTCTTGCGTGAGGGCTACGCGGTCAA
GACACCATCACTCCGGACCGCATCGTGGTGGGTGTGCGTGAA

>RXN03015-downstream
TAAGACA

>RXN03030-upstream
GAAGATGAAGCAGAAAAGATCATTGGTGCGCCAGAGGTTTCTGCATTGGGCAACAAAGCA
CAGCTTGATTCCGTCACCTTGCTGCGTAACAACCCCATCC

>RXN03030
GTGCTGCCACTGGATCCTGCAGCAAGCCTGAAGATCTACCCATTGGTTACTGGCCGTACC
AAGATCGACGAGGTTCAACTACAGCTGGAAGCAGCCATTTCGCGCAGAACTCCCAGGGGTA
ACCTTGGTGTCTTCCGAGTCAGAAGCAGATCTTGCAATCGTGTGGGCTCGCCCTGAAATT
GCACTGTTTGAAGATGACCTCGAAGGTGTTTCCCTCTCTGTTGACCCTCGTGCCAATGGT
GTCGATGTGGAACGCGTTCAGGCTGTGGAAGCTGCAGTCCCAACCATCTTGGCTGTGAAC
TTCACCAACCCTTGGGTGCTGTCTGAGATCGAGCCTGGTGCCGCTGCCGTGGTGGGCACT
TTTGAGATCAAGCCAGAGTTCTTCTCAAGGCTTTGACTGGTCAAGAGGGAGGACCAAG
GGCAAGCTGCCATTGACTGTTCTGCTTCCATGCAGGCGATTGCTGATTCCCCCTCGCGAT

ATCCCAGGCAAGTTCCTCGATGAGTCTTACACCTACGTGGACTCCGCAGGGATGGCCTAC
AAGTACGGTCACGGACTTAATTC

>RXN03030-downstream
TAGATTGTAGGTAGTCTCGTGGG

>RXN03043
GATCTCGATGGCTTCCGTCAGGAAGTTTCCCGTGAGCAGGGTGGCATTCCGTCCTACCCCT
CACCCACACGGTATGAAGGACTTCTGGGAGTTCCCAACTGTGTCCATGGGTCTTGGCCCA
ATGGATGCCATTTACCAGGCACGTTTCAACCGCTACCTCGAAAACCGTGGCATCAAGGAC
ACCTCTGACCAGCACGTCTGGGCCCTTCTTGGCGACGGCGAAATGGACGAGCCAGAATCA
CGTGGTCTCATCCAGCAGGCTGCACTGAACAACCTGGACAACCTGACCTTCGTGGTTAAC
TGCAACCTGCAGCGTCTCGACGGACCTGTCCGCGGTAACACCAAGATCATCCAGGAACCTC
GAGTCCTTCTTCCGTGGCGCAGGCTGGTCTGTGATCAAGGTTGTTTGGGGTCGCGAGTGG
GATGAACTTCTGGAGAAGGACCAGGATGGTGCACCTGTTGAGATCATGAACAACACCTCC
GATGGTGACTACCAGACCTTCAAGGCTAACGACGGCGCATATGTTTCGTGAGCACTTCTTC
GGACGTGACCCACGCACCGCAAAGCTCGTTGAGAACATGACCGACGAAGAAATCTGGAAG
CTTCCACGTGGCGGCCACGATTACCGCAAGGTTTACGCAGCCTACAAGCGAGCTCTTGAG
ACCAAGGATCGCCCCAACCGTCATCCTTGCTCACACCATTAAGGGCTACGGACTCGGCCAC
AACTTCGAAGGCCGTAAACGCAACCCACCAGATGAAGAAGCTGACGCTTGATGATCTGAAG
TTGTTCCGCGACAAGCAGGGCATCCCAATCACCGATGAGCAGCTGGAGAAGGATCCTTAC
CTTCTCTTACTACCACCCAGGTGAAGACGCTCCTGAAATCAAGTACATGAAGGAACGT
CGCGCAGCGCTCGGTGGCTACCTGCCAGAGCGTCGTGAGAACTACGATCCAATTCAGGTT
CCACCACTGGATAAGCTTCGCTCTGTCCGTAAGGGCTCCGGCAAGCAGCAGATCGCTACC
ACCATGGCGACTGTTTCGTACCTTCAAGGAACTGATGCGCGATAAGGGCTTGGCTGATCGC
CTTGTCCTCATTCCTGATGAGGCACGTACCTTCGGTCTTGACTCTTGTTTCCCAACC
TTGAAGATCTACAACCCGACGGTCAGAACTACGTGCCTGTTGACCACGACCTGATGCTC
TCCTACCGTGAGGCACCTGAAGGACAGATCCTGCACGAAGGCATCAACGAGGCTGGTTCC
GTGGCATCGTTTCATCGCTGCGGGTACCTCCTACGCCACCCACGGCAAGGCCATGATTCCG
CTGTACATCTTCTACTCGATGTTTCGGGATTCCAGCGCACCGG

>RXN03043-downstream
TGAATCCATCTGGGCAGCAGCCG

>RXN03044-upstream
TACGCCACCCACGGCAAGGCCATGATTCGGCTGTACATCTTCTACTCGATGTTTCGGGATT
CCAGCGCACCGGTGACTCCATCTGGGCAGCAGCCGATCAG

>RXN03044
ATGGCACGTGGCTTCTCTTGGGCGCTACCGCAGGTGCGACCAACCTGACCGGTGAAGGC
CTCCAGCACATGGATGGACACTCCCTGTCTTGGCTTCCACCAACGAGGGTGTGAGACC
TACGACCCATCCTTTGCGTACGAGATCGCACACCTGGTTACCGTGGCATCGACCGCATG
TACGGCCCAGGCAAGGGTGAAGATGTTATCTACTACATCACCATCTACAACGAGCCAACC
CCACAGCCAGCTGAGCCAGAAGGACTGGACGTAGAAGGCCTGCACAAGGGCATCTACCTC
TACTCCGCGGTGAAGGCACCGGCCATGAGGCAAACATCTTGGCTTCCGGTGTGGTATG
CAGTGGGCTCTCAAGGCTGCATCCATCCTTGAGGCTGACTACGGAGTTCGTGCCAACATT
TACTCCGCTACTTCTTGGGTTAACTTGGCTCGCGATGGCGCTGCTCGTAACAAGGCACAG
CTGCGCAACCCAGGTGCAGATGCTGGCGAGGCATTTCGTAACCAACCCAGCTGAAGCAGACC
TCCGGCCCATACTTGCAGTGTCTGACTTCTCCACTGATCTGCCAAACAGATCCCGTGAA
TGGGTCCCAGGCGACTACACCGTTCTCGGTGCAGATGGCTTCGGTTTCTCTGATACCCGC
CCAGCTGCTCGTCTGCTTCTTCAACATCGACGCTGAGTCCATTGTTGTTGTCAGTGTGAAC
TCCCTGGCACGCGAAGGCAAGATCGACGTCTCCGTTGCTGCTCAGGCTGCTGAGAAGTTC
AAGTTGGATGATCCTACGAGTGTTCGGTAGATCCAAACGCTCCTGAGGAA

>RXN03044-downstream
TAAATCACCTCAAGGGACAGATA

>RXN03056-upstream
TTACTATCACTGGTTTTGCAGATGAGATCGCACATGATCTCGACGAACAGATTTTCCTTAC
TTAATAAACTGAAGAACAGCTCGCGGAAGCTAAAGCCAAA

>RXN03056

TTGGATGCCGCGAGGAATTTCACTTTTCAGCCGTTGGATCCGACTTCGGCAAGATCAACATC
ACCGATCCTTTTGAAGATCACTTGGAGCGCGCACGCCACGGTGTGAGGTCGCTAAGCTC
TTCGGCGCGAAATACATCCGCATGTTCTCCTTCTTTATTGCAGAAGGCGACAACCCTGAA
AGCTTCCGCAAAGAAGTACTCTCCCGCACCCACGCAATGGTTCGAACTCGCAGAAGCCGGC
GGCATCACCTCCTCCACGAAAATGAAAAGGGAATCTATGGCGACTCCCCGCAGCGCGTG
AAGGATTTAATCACCAGCATCGACTCCCCTAACTACCGCGCAATCTACGACGCAGCTAAC
TACGTGCAAAACCGGATTCAAGCCTTTTGTATGAGGCATGGCCGATCGTTAAGGACTACGTC
GACTACGTCCACATCAAGGACGCGACCATTCCAGATGCAGAGCACCCCATCGGAATCATC
AAGCCAGCAGGACAAGGCGACGGCCAATACCCAGAGCTCCTTGCCGCGCTAAACGCCGAC
GGTTACAACGGATTTCGTCTCCATCGAGCCTCACCTGGGTGACTTCGATGAATTCGGCGGA
CTCTGCGGACCTGACCTGTGGACCAGCGCATGCGACGCTCTCGCAGGAATCCTGAACAAC
ATCAACGCCGAGTACAAC

>RXN03056-downstream

TAAGGACAACCTGATAATGACAAA

>RXN03057-upstream

CATCAACGCCGAGTACAACCTAAGGACAACCTGATAATGACAAATGCTGCAATTGTCGGATG
AGGAGACGTGCGAACCGTTCATACAGAAGCGCTGGAAGCT

>RXN03057

TTGGCTTCCGATCTTGGTATTAAGTTCGTGCGAGTGGTGGATAAAGATCTAGAGACTGCT
GAGAAATTTGCGACGGGACTTGGAGCTGCTGGCGATTCTTCAGAAAGCAGCGTCAAGGCC
CACGGCAGCCTGCCGGCTTTGTTCTCCAAAAGAAGATCGATGTTCTACACATCACCACC
CCCCACGACCAACACATCGGTTGGCTCTCGAAGCGCTACACCACGGTGTAATGTCATC
CTGGAAGGCGTGGCTAATGAGTTGGACCAGGCGCAGCGTCTCATCGACTACTTGGAT
GAAAACCCCGATGGTCCAAAGATTGCAGTGTGCTATCAGAACCGTTACAACGTTTCCTCC
CAGGAAGTGCCTGCTGCTCGATTTCAGGTGACCTCGGTGCCATCAATGGTGCATATTCC
TCTGTGGTGTGGACCCGACCCAGGCTACTACACCCAGAAACCTTGCCGTGGCCAGCAA
GCACACTCCGGTGGTGGCCTGCTGATGAACCAAGCAATTCACACCCTGGATCTGCTGCAG
TGGTTCTTGGAAAGGCAACAGAAAGTCAAGGGCACTGTCTCCACCGATAAGTATGCCGAT
GTCATCGATGTTGAAGACACCGCACACGCATACATCGGTACAGAGTCCGGAGTCCACACC
AGTGAAGTGAGT

>RXN03057-downstream

TGAACCATGCTATTGGTGATACA

>RXN03061-upstream

CTGCCACCACTGGTCATTGCAGAGGACACTCTCCGTGATGGTCTTCAGGTGTTAGTCGCA
GCCCTAGAGCGCGAAACCGCGCACCAAGAAGGTGGGCTAAA

>RXN03061

GTGTCTTTGACCTTCCCAGTAATCAACCCAGCGATGGCTCCACCATCACCGAGCTAGAA
AACCACGATTCCACCCAGTGGATGTCCGCGCTCTCTGATGCAGTTGCAGCTGGTCTTCA
TGGGCTGCGAAAACCTCCCGCGAAAGATCCGTGGTACTCACCGCAATCTCGAAGCACTG
ACCGAACGCGCCCAAGAACTTGCAGAGATCATCCACCTGGAAGCTGGAAAATCCGATGCA
GAAGCTCTTGGTGAAGTCGCTTATGGTGCAGAATACTTCCGTTGGTTGCGGAAGAAGCA
GTGCGCCTGCCCGGCCGCTACGGACAGTCA

>RXN03076-upstream

AATACCTTTCTGTTTTGTCCGCAGGCGTATCAGGAAAACCTGCAGCGCGGTAGAGTCGAG
TCTAATAGTGATCCACGAAAACAAAGGATCGGGGTGTTC

>RXN03076

ATGGACGAGTCTCGTCAGCTTAGTTTTCGGCACAGCAGGGTTGCGTGCACCAGTTGGCCCG
GCGCGCCATCAGATGAATGTTTTGCAGGTAACCAAGAACTACAGCAGGTGTTGCTAGTTGG
TTGGCAGAACGTGCGGCACTAAATCCAGTGCCGCATTTGGTTTCTGAGGATGAAACAGGA
ATCGGCAGGGCGTTGTATCCCCAAGATGGTCCGTTGCGGGTTCGTTGTGGGGTATGACGCT
CGCTATGGTTTCGATACCTTTTGCTGCAACCACTGCGGAGGTGTTTCGCGGGTGTGTTTT

GAGGTGACGTTGCTCCCCACGCCTAGCCCTACGCCGTTGATTCCGTGGTTGGTGAACAAG
 CATGGGTTGGATGCGGGCGTTTCAGATCACGGCTTCGCATAATGGTGCGGCGGACAATGGC
 TACAAGGTGTTTTTGTCTAATGGTCGCCAGCTTTATTCTGAACTGGAGCCTGAGCTTGAG
 GCGCATATCAATGCTGTGGAAGATCCGATTTCGGGTTCTCGGGTGACGGTGCGCCCCACT
 GCTGATCAGCTGCGTCGATATGTTGATGAGATGGTGTCGTTGGTGACTCCTGATCAGGCT
 GATTTGTTGCGGGTGAATTCTGAGCGGGGCAATCTTCGCGTGGTGATACCGCTCTGCAT
 GGTGTGGGTGGCCGCGCGATGGCCAATGCTTTCCAATTTGCTGGTTTCCCCATACTCAT
 GGCGTGAAGGCTCAGCAGTATCCTGATCCCACCTTCCCCACTGTGGCGTTCCCCAATCCG
 GAAGAGCCTTCTGCGATTGAGTTGTTGTTGGAACGCGCAAAGGAAAAAGAACGCTGACATT
 TTGTTTTCGCTTGATCCTGATGCCGATCGTTGTGCTGTGGGTATTTCGTACCGCTGATGGC
 GGCCACCGAATGCTCTCTGGCGATGAGGTGGGCACACTTTTGGCTACTCGTTTGGTTCCG
 GAGTATTCCGGTGAAGGCCACGTCCCGTGGTTGCCACCACGGTGGTGCTTCGCGAGCTT
 CTGGGTATCATCGCCGAGGATAAAGGGTGGGATTATTCCGAGACACTGACGGGATTCAAA
 AATCTGTCGAGGGCTGCCGATGGTCTCGACGGACCGCTTGCTTTTCGCTTATGAGGAAGCT
 GTGGGCACCTGCCCGGTTCCAGATGTCGTGCCGATAAGGACGGCATCTCTACAGCGTTG
 TTCATGGCGTCGTGGGCTGCCGAACCTGAAGGCTCAGGGCGCAAGCCTGCAGCAAAAACTC
 AATGAGTTGTATCGCCGATATGGGTATTTTGCCTCCTCGCAAATTGCTGTGCGCACGAGC
 AGTCCACGCGAGTTAGTTGATCAGTGGATTGCGCATCCTCAGCAAGAACTCATTGGAGTG
 TCTGTACCCACATATTTCTTCTGAAAAACAGGGCATTGCTTTGCATGGCCAGGTGGGG
 CATGTGCATATCCGTGCTATTGGTCGAGTCTCTGGAACCTGAGGCGAAAGCCAAGCTCTAT
 TTGGAAGTTGGTCAGGCCAGCTCCCATGATGAAGCAGCTCAGTTGTTGCATCAGCTGGAG
 GATGAAGTCCAAAGCTGGTTGAGCAAGCTT

>RXN03076-downstream
 TAGTTTCCTGGCTGCTCCCGGTT

>RXN03083-upstream
 ATTCAGCAGTAATCATTTAGACTTGGAAACCGCTTACCAGTGSTTTCAACAATGCATTCAC
 CCAGCTCACACGTGTGGAGGTGCCTTA

>RXN03083
 ATGGCAAAGAGGATCGTAATTATCGGCGGTGGACCTGCAGGCTATGAAGCCGCACTCGCA
 GCGCTAAATACGGTGCGAAGTTACCGTTATTGAAGATGTCGGAGTTGGCGGATCCGCA
 GTCACCATGGACTGTACCTTCAAAGTCCTTCATCGCTGGTACCGGTATCAAAACCGAC
 CTCCGACGTGCTGATGACATGGGACTTAACCGTGGGCTTGGAAAAGCACACCTAGAAATC
 GATGCACTGAACATCCGTGTGAAGGACCTTGCGAAAGCACAGTCCGAAGATATCTTGGGC
 CAGCTGCAGCGCTCAGATGTCCGCTGATTAACGGTGTGGGCCGCTTTGATGATTACAAC
 ACCAAGCAAACACCCACTACATTAAAGTCACCCACAGCGATGGCTCCGAAGAAACCGTT
 GAGTGCGATCTGGTGCTGGTTGCAACTGGTGCAACCCCCCGCATCTTAAAGGTGCAGAG
 CCAGACGGCGAGCGCATCTTGACCTGGCGTCAGGTCTACGACATTGAAGAACTCCCCACC
 CACCTTATCGTGGTTGGTTCCGGTGTGACCGGTGCGGAATTTGTCTCTGCGTTTGTGAA
 CTCGGCGTCAAAGTACCATGGTGGCATCCCGTGACCGCATTTTGCCTCACGATGACGCA
 GATCCGCGACAGCTGCTGGAACCGTTCTGGCTGAGCGCGGAGTATCCCTGGAAAAGCAT
 GCCCGCGTGGAGTCTGTACCCCGCACCGAAGACGGTGGCGTGTGTGTTTCGCACTGCTGAC
 GGACGAGAAATCTACGGTTCTCACGCGTTGATGACTGTTGGTTCCATTCCAAACACGGCA
 GATCTTGGCCTGGAGAACATCGGTGTTGAGCTGGCACCATCCGGCCATATCAAGGTTGAC
 CGGTCTCCCGCACCAACATCCCCGGTGTGTACGAGCAGGTGACTGTACTGACCTATTCC
 CACTGGCGTCCGTTGCAGCGATGCAGGGCCGTATCGCCATGTATCACGCACTCGGTGAAG
 GCG

>RXN03083-downstream
 TGAGCCCCATCCGTTTGAAGACT

>RXN03086-upstream
 TTCGTGCACTTCGGCGTGTCACAATTAGGTACGACCAAGAATGGGACCGGGAAACCGGGA
 CGTATAAACGAAATAAAACATTCCAACAGGAGGTGTGGAA

>RXN03086
 ATGGCCGATCAAGCAAAACTTGGTGGCAAGCCCTCGGATGACTCTAACTTCGCGATGATC
 CGCGATGGCGTGGCATCTTATTTGAACGACTCAGATCCGGAGGAGACCAACGAGTGGATG
 GATTCACCTCGACGGATTACTCCAGGAGTCTTCTCCAGAACGTGCTCGTTACCTCATGCTT

CGTTTGCTTGAGCGTGCATCTGCAAAGCGGTATCTCTTCCCCAATGACGTCAACCGAC
TACGTCAACACCATTCCAACCTCTATGGAACCTGAATTCCCAGGCGATGAGGAAATGGAG
AAGCGTTACCGTCGTTGGATTGCTGGAACGCAGCCATCATGGTTCACCGCGCTCAGCGA
CCAGGCATCGGCGTCGGCGGACACATTTCCACTTACGCAGGCGCAGCC

>RXN03087-upstream

GTTGCCGCCAGCCGTTCCAGGGCGCTTGAGCTGGTCAGCGACATCGCAATGATCAACCAG
GAATACCTGGAAGAGCTGATATTGATAGGGTTTAAGTC

>RXN03087

ATGAAGATCTACGCACCTTTTGCTGGAATCGTCCACTATTTTGTGATGAAGGCGATCCC
GTGGAACCGGCATGCAACTGGGAACGGTAGAAACCATCAAACCTCGAGGCACCAATCATG
GCACCGGGACCTGGCATCGTAGCTAAGGTTTCTTTTGATGATTTCTCCGACGTCACCGGC
GGCGATGAACCTCTCGAATTGGAGGCAAAGAAC

>RXN03087-downstream

TAATGGGTCAAACCCGCATCATT

>RXN03096-upstream

AAGATCATGCTCATCGAAGCCGGCGCCCGAAGATGGCAGTTGGCTGGCATGGGTCCCTTAT
CGCAGGCGCCGTTGTACCTCACTGCTCACCTTGTACACC

>RXN03096

ATGGTTCTGGTCTGGTCCAAGGCCTTCTGGCGCGACCGTAAAGACGCCCCCGATGGAGCA
ACCGCACTAGCAAGACCCGCACCTTTGGTAGATATCCAAGACGAAGTCGCCGTTAAAGAC
CGCAACGATGTCGGACGGATGCCTTGGGGCATGGTCTTCTCCACTGCCCTGTTGGTTTCC
GCATCCCTTGCTGTATCCGTGCTCGCAGGACCACTGTCATCTATTACTGGACGCGCCGCC
GAATCCGCACAAGATGTCAACATCTACCGCGCCGCAGTACTCGGCCCACTACCTCGACC
CATCACGCACACTCGAGATGGAGCGTTACGACGCCAACCGCGATGACATCAACCACCGCG
TCGACACCAATGGAACGGAGGACCAACCATGATCAGTGGATT

>RXN03101

ATCCTTGACAGCAAGACGACACCGTCGACGTCGGCGCAGTCATCGCCCGCATCGGTGAC
GCAAACGCAGCTGCAGCACCTGCCGAAGAGGAAGCAGCTCCTGCCGAAGAGGAAGAACCA
GTTAAGGAAGAGCCAAAGAAGGAGGCGAGCTCCTGAAGCTCCAGCAGCAACTGGCGCCGCA
ACCGATGTGGAATGCCAGAACTCGGCGAATCCGTACCGAAGGCACCATTAACCCAGTGG
CTCAAGGCTGTGCGCGACACCGTCGAAGTAGACGAACCACTTCTTGAGGTCTCCACCGAC
AAGGTGCACACCGAAATCCCATCCCCAGTAGCAGGCACCATCGTGGAGATCCTTGCAGAC
GAAGACGACACCGTCGACGTCGGCGCAGTCATCGCCCGCATCGGTGACGCAAACGCAGCT
GCAGCACCTGCCGAAGAGGAAGCAGCTCCTGCCGAAGAGGAGGAACCAAGTAAAGGAAGAG
CCAAAGAAGGAAGAGCCCAAGAAGGAAGAGCCCAAGAAGGAAGCAGCTACTACACCTGCT
GCGGCATCCGCAACTGTGTCCGCTTCTGGCGACAACGTTCCA

>RXN03112-upstream

GTGAGCACGCAATTTCTTTGCTGCTGTCTACTGCTCGCCAGATCCTGCTGCTGATGCGAC
GCTGCGTGAGGGCGAGTGGAAGCGGTCTTCTTTCAACGGT

>RXN03112

GTGGAATTTTCGAAAAAAGTTCGGTATCGTCGGTTTTGGCCACATTGGTCAGTTGTTT
GCTCAGCGTCTTGCTGCGTTTGAGACCACCATTTGTTGCTTACGATCCTTACGCTAACCCT
GCTCGTGCGGCTCAGCTGAACGTTGAGTTGGTTGAGTTGGATGAGCTGATGAGCCGTTCT
GACTTTGTACCACTTACCTTCCCTAAGACCAAGGAACTGCTGGCATGTTTGATGCGCAC
CTCCTTGCTAAGTCCAAGAAGGGCCAGATCATCATCAACGCTGCTCGTGGTGGCCTTGTT
GATGAGCAGGCTTTGGCTGATGCGATTGAGTCCGGTCACATTCTGTTGGCGCTGGTTTCGAT
GTGTACTCCACCGAGCCTTGCACTGATTCTCCTTTGTTCAAGTTGCCTCAGGTTGTTGTG
ACTCCTCACTTGGGTGCTTCTACTGAAGAGGCTCAAGATCGTGGGGTACTGACATTGCT
GATTCTGTGCTCAAGGCGCTGGCT

>RXN03117-upstream

TGTGCAACATTAGTTTCGTTAAGAAGAGTCACATTCCAGCC

>RXN03117

ATGATTACCCACGAAGTGCGCACCCACCGTTCTGCGGAAGAGTTCCCGTACAAGAAGCAC
 CTGGCTCACAAGATGGCTCGCGTTGCAGCCGACCCAGTTGAGGTTGCTGCGGACACTCAG
 GAAATGATCATCACCCGCATCATCGACAATGCATCGGTGCAGGCAGCTTCCGTGTTGCGT
 CGACCAGTTAGCTCTGCCCCGTGCGATGGCACAGGTGAGGCCAGTTACCGATGGTCGGGGT
 GCATCTGTTTTTCGGTCTGCCAGGACGTTATGCCGCGGAATGGGCTGCGCTTGCTAACGGC
 ACTGCGGTGCGTGAGCTTGATTTCCATGACACGTTCTCTGCTGCGGAATACTCCCACCCA
 GGAGATAACATTCCCTCCGATTTTGGCTGCAGCACAGCAGGCTGGAAAAGGTGGCAAGGAT
 CTGATCCGTGGCATCGCTACTGGGTATGAGATTGAGGTTAACTTGGTGGCTGGAAATGTGC
 CTGCATGAGCACAAGATTGATCACGTTGCTCATCTTGGACCATCAGCGGCTGCTGGTATC
 GGAACCTTGCTAGACCTAGATGTGGACACCATCTACCAGGCAATTGGTCAGGCATTGCAC
 ACCACCACGGCGACGAGGCAGTCCCGTAAAGGTGCGATTTCTTCATGGAAGGCATTTGCT
 CCTGCGTTTGCGGGCAAGATGTCCATCGAGGCAGTAGATCGCGCAATGCGTGGCGAGGGC
 GCACCGTCACCAATCTGGGAAGGCGAAGACGGCGTAATCGCGTGGCTGCTGTCCGGTCTT
 GATCACATCTACACCATTCCTTTGCCGTGCGAAGGTGAAGCCAAACGAGCAATCTTGGAT
 ACCTACACCAAGGAACACTCGGCGGAATACCAGTCACAGGCACCGATCGACTTGGCGCGC
 AGCATGGGGGAGAACTGGCAGCACAGGGCTTGGACCTGCGTGATGTGGACTCCATCGTT
 TTGCACACCTCCCACCACACTCACTACGTGATCGGCACCGGATCTAATGATCCACAGAAG
 TTCGATCCAGATGCATCGCGAGAAACCCTTGATCACTCCATCATGTACATTTTCGCTGTC
 GCGCTGAAGGATCGCGCGTGGCACCACGAGCGTTTCTATGCTCCTGAGCGAGCCCACCGC
 CGAGAGACCATCGAGCTGTGGAACAAGATTTCCACGGTGGAGGATCCTGAATGGACCAGG
 CGTTACCACTCCGTTGATCCTGCGAGAAAGGCCTTCGGCGCACGCGCAGTGATCACCTTC
 AAGGATGGAACCGTCGTGGAAGATGAACTGGCTGTGGCGAATGCGCATCCTCTGGGAGCA
 CGGCCTTTTCGCTAGGGAGCAGTACATTGAGAAATTCGCGACCTTGGCTGAAGGTGTTGTG
 TCCGAAAAGGAACAGGATCGCTTCTTGGATGCGGCACAGCGTACGCACGAGCTTGAGGAT
 CTTTCAGAACTCAACATTGAATTGGATGCCGATATTTTGGCCAAGGCTCCTGTGATTCCG
 GAAGGACTGTTT

>RXN03117-downstream

TGATGGCGGGTTTGTTCCTCT

>RXN03144

ACCACGACGGCTACCAGGCAGTCGCGAAAAGGTGAGATTTCCAGCTGGAAGGCGTTTCGCG
 CCAGCGTTTTCGGGAAAGATTGCCATTGAGGCGATGGATCGTGCGATGCGTGGGGAGGGT
 TCGCCCGCACCGATTTGGGAGGGCGAAGACGGGGTCATCGCGTGGCTGTTATCGGGCAAA
 GATCATGTTTATCATGTGCCATTGCCGGAACACGGCGAGCCCAAGCTGGGGATTCTAGAG
 ACTTACACAAAGGAACATTGAGCGGAATATCAATCGCAGGCACCGATTGATCTGGCGCGC
 AGGATGAAGCCACTGGTTGACGCGGCTGGCGGAACGGAACACATTGCAGAGATTGTGCTG
 CGCACCACTGACACACGATTATGTGATTGGCACTGGGGCGAACGATCCGCGAGAAGATG
 GATCCGCGAGGCCTCGCGTGAAACCCTGGATCATTCCATCATGTACATTTTCGCCGTGCGG
 CTTCAAGATGGCGTGTGGCACCAAGATTTCGACCGGTGGAGGATCCTGAATGGACGCGCCGA
 GAACTGTGGAGCTGTGGCACAAGATTTCGACCGGTGGAGGATCCTGAATGGACGCGCCGA
 TACCATTTCTGATGATCCTGCAAAAAAGGCCTTTGGTGCGAAAGCAGTGATCACAAATGGCT
 GATGGCACCGTGATTGAGGATGAATTGGCTGTGCGGGATGCCCACCGCTGGGTGCTCGG
 CCGTTTTCGCGGGGAGAATTACATTGAAAAATTCCGCACACTCGCGCAGGGGATTGTCAAT
 GATTGAGAACAGGAACGCTTCTTGATGCGCGTCAAAGCCTGCCTGACCTGGATGATCTT
 GATCAGCTCAACATCGAAGTCGACATAAGCAACCAGGCCGCGACGAAAGCGGGGCTGTTA

>RXN03144-downstream

TGAATCTCTTTTCGAATGGTGTT

>RXN03150-upstream

TTTAACAGAGTGCCTTTCAATGCCTGTAGTGTTCCGGCAATTTTGAATGTCGTTACGGTT
 ACCCAAGGCTGAATTCTGAGCTCACCTTGTACAAGATCA

>RXN03150

GTGGAAGCCCAGTTCACCTCTCCCCTGCTCAACAATGGGCAAACCTGTTTCCTTGGTACC
 CGAATCCTTGCTCCAAAATCACGTTACGCGGAAGTAGTCGATGCATTCACCGCTTTCGCT
 GGCAGCCTGCAGGTTGGAGTCACGTCCTCCCCTGACACTCAGATCGGACCGATGGCGACT
 GCCCGGCAGCGTGAGCGCGTGGAATCCTACATTTCCCAAGGCAAAAATGCTGGAGCCCGC
 ATCACTGTGCGGTGGCAGCCGTCCACGAGATCTTGACGCCGGATTCTTCGTTGAGCCAACA

GTGTTCCGCCGATGTAGACAATCGCGCAGCCATTGCCCAAGATGAAATCTTCGGACCGGTG
CCCTCTGTTGTTTCTTACCAAGACGATGAACACGCCATCCAAC TAGCCAACGATTCCGAA
TTCGGTCTCGGCGGAACTGTCTGGACGAGCGATCCCGAGCGCGCGCTGCATTGGCCCCG
CGAGTTCACACAGGAACCATTTGGCATCAACCGCTATATCCCTGATCCCGCCGCACCATTT
GGAGGTGTGAAAAACAGTGGCCTTGGCAGAGAACTCGGCCCCGAAGGTCTTGCTTCCTAC
CAAGAAACCCAAACCATTTATCTC

>RXN03150-downstream
TAATCCAAACTGCACCTATATAT

>RXN03179
GCTCGTGAGGCATGGCGCATTTTTCATGTCCCACTGGGATCTCTACGCAGGAACCGCAACT
GGCTACTGGGTGGAGCAGGAATTTGAGCACGTTTTTCGGCATCAACGCGGAGCGCCTGAAT
GTTGGCACCCAGAACATGCTGACGCCATCTTTGATGAGCTGACCGATATTCTTGCCAAG
CCAGATTTCCGACCACGCGCACTGGCTGAGCAGTTCAACTTGGAAGTTCTAGCCACCACC
GACGATCCGCTCGATGACCTGGCAGATCACAAGGCAGTGGCAGATGATCCAACCTTCTCC
CCTCGTGTGCTCCCTACCTTCCGCCAGACGCATACACCAAGATGTACAACGCTGGTTGG
GCAGAAAAAACACCAAGCTTATCGATACCGCAGGTGACGGCAAGGCAGGCTGGGAGGGT
TACCTTCAGGCAATGCGCAACCGCCGCCAGTACTTCATCAATCACGGTGCAACCTCCGCG
GACCACGGTCTCCACGACACCGACACCACCCCACTGAGCCACAAAGATGCCCAGAAGATC
TTGGACAAGGGTCTCGCTGGCACAGCAACCTTGGCTGAAATGCATGCCTTCGAAGCCAAC
ACCACCTACCGTTTCGCGGAAATGTCCAAGAAGACGGCTGGTCATGACCATCCACCAGGTG
TGTACC

>RXN03180
TTCGGTGAGAACAAAGATCTCATCTCTGACAGCAGTTTCAACCGCTGGCTGCGTACGGTT
TCCCTCGGATCGACCCAGGATGCCGATATGGCTGCAGCTTCCAACCTGGCAGCCAATTCT
AAAATGGCCCCGCCAGAACACCCGCGATATCCTCGACGCAGTCTCTGATGGTGGCGTCATG
CTCGGCCGAAACGGTGCCCTAGTGTGGGACCTGTGGTTGGAACCTCTCCACATTAAATTC
ATTGCGCCTTTGAACAAGCGTGTGGAAAGAGTCATGTACAAAACCTGGACTCTCAGAAGCT
GCTGCAGCTGAGCAATGTGCTTTGGAGGATCGTCTCCGCGAAGAGATGGCCCACGCTTTG
TATCAATGGAATCCGGGACGCGATGAAAACCTATGACCTCGTGATCAACACCGGTTTCGATG
ACATACGAACAAATCGTTGATCTAGTTGTGGAAACTTACGCCAGGAAGTATCCGCTCCAC
GTGAGAATCATTTCCGAACGGAAAGACCAA

>RXN03180-downstream
TAAACATACAGTCCCCGTGATGT

>RXN03186-upstream
TTCGTGCACTTCGGCGTGTCAACAATTAGGTACGACCAAGAATGGGACCGGGAAACCGGGA
CGTATAAACGAAATAAAACATTCCAACAGGAGGTGTGGAA

>RXN03186
ATGGCCGATCAAGCAAAAACCTTGGTGGCAAGCCCTCGGATGACTCTAACTTCGCGATGATC
CGCGATGGCGTGGCATCTTATTTGAACGACTCAGATCCGGAGGAGACCAACGAGTGGATG
GATTCACTCGACGGATTACTCCAGGAGTCTTCTCCAGAACGTGCTCGTTACCTCATGCTT
CGTTTGCTTGAGCGTGCATCTGCAAAGCGC

>RXN03187
GTTGCAGTGTCTGACTTCTCCACTGATCTGCCAAACCAGATCCGTGAATGGGTCCCAGGC
GACTACACCGTTCTCGGTGCAGATGGCTTTCGGTTTCTCTGATACCCGCCAGCTGCTCGT
CGCTTCTTCAACATCGACGCTGAGTCCATTGTTGTTGTCAGTGCTGAACTCCCTGGCACGC
GAAGGCAAGATCGACGCTCTCCGTTGCTGCTCAGGCTGCTGAGAAGTTCAAGTTGGATGAT
CCTACGAGTGTTCGGTAGATCCAAACGCTCCTGAGGAA

>RXN03187-downstream
TAAATCACCTCAAGGGACAGATA

>RXS00584 - 5'-Region
TAGTTGTGCCACCTAAAACGCGAACAGAACCGGAGTCGAGCAGCACCTCCCCGCAAGGGTAGAGGGGCT
GCTTTTTTGTTCCTAAATTCACCCCATCCC

>RXS00584 - coding Region

ATGCATAGCCCTGAAAGGCAAGAAAAAATGAGTTCTCCAGTCTCACTCGAAAAACGCGGCGTCAACCAGC
AACAAGCGCGTTCGTGGCTTTCCACGAGCTGCCTAGCCCTACAGATCTCATCGCCGCAAACCCACTGACA
CCAAAGCAGGCTTCCAAGGTGGAGCAGGATCGCCAGGACATCGCTGATATCTTCGCTGGCGACGATGAC
CGCCTCGTTGTCTGTTGTGGGACCTTGCTCAGTTCACGATCCTGAAGCAGCCATCGATTACGCAAACCGC
CTGGCTCCGCTGGCAAAGCGCCTTGATCAGGACCTCAAGATTGTCATGCGCGTGTACTTCGAGAAGCCCT
CGCACCATCGTCGGATGGAAGGGATTGATCAATGATCCTCACCTCAACGAAACCTACGACATCCAGAG
GGCTTGCGCATTGCGCGCAAAGTGCTTATCGACGTTGTGAACCTTGATCTCCAGTCGGCTGCGAATTC
CTCGAACCAAACAGCCCTCAGTACTACGCCGACACTGTGCGATGGGGAGCAATCGGCGCTCGTACCACC
GAATCTCAGGTGCACCGCCAGCTGGCTTCTGGGATGTCTATGCCAATTGGTTTCAAGAACGGAAGTAC
GGAAACATCCAGGTTGCAGTCGACGCGGTACAGGCTGCCAGAACCACACTTCTTCTCGGAACCTCC
GACGACGGCGCGCTGAGCGTCTGAGGACCGCAGGCAACAGCAACTCCCACATCATTTTTCGCGCGCGGT
ACCTCCGGCCCGAATCATGATGCAGCTTCCGTTGGAGGCGCTCGTCGAGAAGCTTGGTGAACCGCTCGT
CTCATGATCGATGCTTCCCATGCTAACTCCGGCAAGGATCATATCCGACAGGTTGAGGTTGTTCTGTGAA
ATCGCAGAGCAGATTTCTGGCGGTTCTGAAGCTGTGGCTGGAATCATGATTGAGTCTTCTCGTTGGT
GGCGCACAGAACCTTGATCCTGCGAAATTGCGCATCAATGGCGGTGAAGGCCTGGTGTACGGACAGTCT
GTGACCGATAAGTGCATCGATATTGACACCACCATCGATTTGCTCGCTGAGCTGGCCGCGAGCAGTAAG
GAACGCCGAGCAGCAGCCAAG

>RXS00584 - 3'-Region
TAATTAAGGGCGCTAGACTGTTA

>RXS01260 - 5'-Region

CTAAACGTGGGCTGCATTCTCTCCAAAGTCTCTGATCAAAAACGCTGAAGTTGCCCATACCTTTACCC
TGAGAAGAAGACCTTCGGCATCAATGGCGAA

>RXS01260 - coding Region

GTGACCTTCAACTATGAGGATGCTCACAAGCGTTCCCGTGGCGTTTCCGACAAGATCGTTGGAGGCGTT
CATTACTTGATGAAGAAGAACAAGATCATCGAAATTCATGGTCTTGGAAACTTCAAGGATGCTAAGACT
CTTGAGGTCAACGACGGTAAGGATGCTGGCAAGACCATCACCTTTGATGACTGCATCATCGCAACCGGT
TCGGTAGTCAACACCCCTCCGTGGCGTTGACTTCTCAGAGAACGTTGTGTCTTTGAAGAGCAGATTCTT
AACCCTGTTGCGCCAAAGAAGATGGTCATTGTTGGTGCAGGCGCAATTGGAATGGAATTCGCCTACGTT
CTTGGTAACCTACGGTGTAGATGTAACCGTCATCGAGTTCATGGATCGTGTGCTTCCAAATGAAGATGCT
GAAGTCTCCAAGGTTATTGCAAAGGCCCTACAAGAAGATGGGCGTTAAGCTTCTTCCCTGGCCATGCAACC
ACTGCTGTTCCGGACAACGGTGACTTTGTGCGAGGTTGATTACCAGAAGAAGGGCTCTGACAAGACAGAG
ACTCTTACTGTTGATCGAGTCATGGTTTCCGTTGGTTTCCGTCCACGCGTTGAGGGATTTGGTCTTGAA
AACACTGGCGTTAAGCTCACCGAGCGTGGCGCAATCGAGATCGATGATTACATGCGGTACCAACGTCGAT
GGCATTACGCCATCGGTGACGTGACCGCCAAGCTTCAGCTTGCTCACGTTCGAGAACACAGGGCATT
GTTGCCGCGAGAGACTATTGCTGGTGCAGAACTCAGACTCTTGGTGATTACATGATGATGCCACGTGCA
ACCTTCTGCAACCCACAGGTTTCTTCCCTTTGGTTACACCGAAGAGCAGGCCAAGGAGAAGTGGCCAGAT
CGTGAGATCAAGGTTGCTTCCCTTCCATTCTCTGCAACCGGTAAAGCAGTTGGCCTGGCAGAACTGAT
GGTTTCGCAAAGATCGTTGCTGATGCAGAACTCGGTGAGCTGCTCGGTGCACACCTGGTTGGAGCAAT
GCATCAGAGCTCATCAATGAATTGGTGTCTGCTCAGAACTGGGATCTCACCCTGAAGAGATCTCTCGT
AGCGTCCATATTCACCCAACGCTATCTGAGGCAGTTAAGGAAGCTGCACACGGTATCTCTGGACACATG
ATCAACTTC

>RXS01260 - 3'-Region
TAGAATCCACCTCGTTGGCCCTG

>RXS01261 - 5'-Region

GTGGGTGTTTTTTCATTTTCTTCCACTCTAAAATTAAGTATGGAAAACCAACCGCACCCGGATGCACGAC
AATGACCCACTAAACACGTATCCTTGAATGC

>RXS01261 - coding Region

GTGACTGAACATTATGACGTAGTAGTACTCGGAGCCGGCCCCGGTGGCTATGTCTCCGCCATCCGTGCA
GCGCAGCTTGGAAGAAGGTTGCTGTAATTGAGAAGCAGTACTGGGGTGGTGTTCCTTAAACGTGGGC
TGCATTCTTCCAAAGTCTCTGATCAAAAACGC

>RXS01261 - 3'-Region
TGAAGTTGCCCATACCTTTACCC

>RXS01758 - 5'-Region
CCCCCTTATTTCAGAGTGATGGTCTACCGGAGAAGTACCCAGACCAATAGCATCGACCAACGATAGCGCG
CTCAGAAGTTCTTTAGTGAAAGCAGAACCAA

>RXS01758 - coding Region
ATGCCCAAATACATTGCCATGCAGGTATCCGAATCCGGTGCACCGTTAGCCGCGAATCTCGTGCAACCT
GCTCCGTTGAAATCGAGGGAAGTCCGCGTGGAAATCGCTGCTAGTGGTGTGTGCCATGCAGATATTGGC
ACGGCAGCAGCATCGGGGAAGCACACTGTTTTTCTGTTACCCCTGGTCATGAGATTGCAGGAACCATC
GCGGAAATTGGTGAAAACGTATCTCGGTGGACGGTTGGTGTATCGCGTTGCAATCGGTTGGTTTGGTGGC
AATTGCGGTGACTGCGCTTTTTGTCTGTCAGGTGATCCTGTGCATTGCAGAGAGCGGAAGATTCTTGGC
GTTTCTTATGCGGGTGGTTGGGACACAGAATATTGTTGTTCCAGCGGAGGCTCTTGCTGCGATTCCAGAT
GGCATGGACTTTTACGAGCCCGCCCGATGGGCTGCGCAGGTGTGACAACATTCAATGCGTTGCGAAAC
CTGAAGCTGGATCCCGGTGCGGCTGTGCGCGTCTTTGGAATCGGCGGTTTAGTGCGCCTAGCTATTTCAG
TTTGCTGCGAAAATGGGTTATCGAACCATCACCATCGCCGCGGTTTAGAGCGTGAGGAGCTAGCTAGG
CAACTTGGCGCCAACCACTACATCGATAGCAATGATCTGCACCCTGGCCAGGCGTTATTTGAACCTGGC
GGGGCTGACTTGATCTTGTCTACTGCGTCCACCACGGAGCCTCTTTCGGAGTTGTCTACCGGTCTTTCT
ATTGGCGGGCAGCTAACCATATCGGAGTTGATGGGGAGATATCACCGTTTCGGCAGCCCAATTGATG
ATGAACCGTCAGATCATCACAGGTACCTCACTGGAAGTGCGAATGACACGGAACAGACTATGAAATTT
GCTCATCTCCATGGCGTGAAACCGCTTATTGAACGGATGCCTCTCGATCAAGCCAACGAGGCTATTGCA
CGTATTTTCAGCTGGTAAACCACGTTTCCGTATTGTCTTGGAGCCGAATTCA

>RXS01758 - 3'-Region
TAATGCCAACAGCAAGCCCAATT

>RXS02574 - 5'-Region
TGTGCTCCTTGCGGGCTGCGCAGAAGAGCCGGAACAGCAAAAAGCAATAAGCCGCTTATCGACGTCCCC
CTCCACCCCTCCCGCACCGACCGCGGAGGAT

>RXS02574 - coding Region
TTGGCGCGCGCGCAAATCCCTGAACAGCAACGCGACCAAGTCCGCTCGCTGATGATGGTTGGAGTTGCG
AATTATGATCAGGCATTGGATGCGCTCAATCAGGGGGTGGGTGGCATCTTTATTGGTTCTTGGACAGAT
GAAAATCTGCTCACGGAACCTGGCCGTAATATTAGGCGCTCCGCGAAGCCGTCGGCAGGGATTTCTCC
GTCAGCATCGACTTCGAAGGCGGCCGCTCCAGCGTGCCACCAATATTCTTGGTGATTTCCCTCACCG
CGCGTGATGGCGCAAACCATGACGCCGGAACAAGTAGAAGATCTCGCAGAAATCCTAGGCACTGGTTTA
GCTGCACATGGTGTGACAGTTAACTTTGCACCTGTTGTAGATGTAGATGCTTGGGGTCTCCCGTCGTT
GGCGATCGTTCTTTTCCAAACGACCCAGCCGTAGCAGCTACTTATGCCACAGCTTTTGCAAAGGGCTTA
AGCAAAGTAGGAATTACCCCAAGTATTCAAACATTTCCAGGTACCGGTCGTGCAAGTGGCGATTTCGCAC
ACCCAAGATGTGGTGACCCCGCACTTGATGAGCTTAAACATTACGACCTCATCCCTTATGGTCAAGCA
CTTTCTGAAACTGACGGAGCCGTCATGGTGGGCCACATGATTGTTCCAGGTCTTGGCACCGACGGAGTT
CCATCCTCTATCGACCCCGCCACCTATCAACTGCTCCGAGTGCGGATTACCCAGGTGGCGTGCCTTTC
GATGGCGTGATCTACACCGACGATCTCTCTGGAATGAGTGCCATTTCCGCCACCCATTACCCGCAGAA
GCAGTGCTTGCTCCCTCAAAGCAGGCGCAGACCAAGCACTATGGATCGACTATGGGTGCTTGGGCTCC
GCGATTGATCGCGTTGATGCTGCCGTTAGCAGCGGTGAATACCCTCAAGAACAAATGCTGGCATCTGCG
TTAAGAGTCCAATTGCTCTACATCACACGTCTCGAACAAAAG

>RXS02574 - 3'-Region
TGAAGTTACCAGTCCGTAACCCC

>RXS02735 - 5'-Region
GAGGAGCTTCGCCACATGGATCCAGATTTGGGCTACCAGCACGCACTATCCGGCTTGTCCAGCGTCAAG
CTGGAAACCGTCTAAGGAGAAATACAACACT

>RXS02735 - coding Region
ATGGTTGATGTAGTACGCGCACGCGATACTGAAGATTTGGTTGCACAGGCTGCCTCCAAATTCATTGAG
GTTGTTGAAGCAGCAACTGCCAATAATGGCACCGCACAGGTAGTGCTCACCGGTGGTGGCGCCGGCATC
AAGTTGCTGGAAAAGCTCAGCGTTGATGCGGCTGACCTTGCTGGGATCGCATTTCATGTGTTCTTCGGC

GATGAGCGCAATGTCCCTGTCAGTGATTCTGAGTCCAATGAGGGCCAGGCTCGTGAGGCACTGTTGTCC
 AAGGTTTCTATCCCTGAAGCCAACATTACCGGATATGGTCTCGGCGACGTAGATCTTGAGAGGCGAGCC
 CGCGCTTACGAAGCTGTGTTGGATGAATTCGCACCAAACGGCTTTGATCTTCACCTGCTCGGCATGGGT
 GGCGAAGGCCATATCAACTCCCTGTTCCCTCACACCGATGCAGTCAAGGAATCCTCCGCAAAGGTCATC
 GCGGTGTTTGATTCCCCTAAGCCTCCTTCAGAGCGTGCAACTCTAACCCTTCTGCGGTTCACTCCGCA
 AAGCGCGTGTGGTTGCTGGTTTCTGGTGCGGAGAAGGCTGAGGCAGCTGCGGCGATCGTCAACGGTGAG
 CCTGCTGTTGAGTGGCCTGCTGCTGGAGCTACCGGATCTGAGGAAACGGTATTGTTCTTGGCTGATGAT
 GCTGCAGGAAATCTC

>RXS02735 - 3'-Region
 TAAGCAGCGCCAGCTCTAACAAG

>RXS03215 - coding Region
 ATCGATGTTGTGAGCGTCTGGTGGCTAACTTCCTGCACCGCGAAATCGTGGAAGCACTTCTGGCATCC
 GGCAAGCATGTGCTGTGCGAGAAGCCACTGTGAGACACCATCGAAGATGCAGAAGCCATGATTGAGGCA
 GCCGGCCGTGCAGCAACAAATGGCACCATCGCCCGCATCGGACTGACCTACCGCCGTTCCCCAGGCGTG
 GCACACATCCGTGATCTCGTGACGTCCGGCGAGCTTGGCAAGGTTCTACACGTACCCGGCCACTACTGG
 ACCGACTACGGATCCAATGCACAGGCACCAATCAGCTGGCGTTACAAGGGGCCAAACGGCTCCGGCGCA
 CTGGCAGATGTGGGAAGCCACCTCACCTACCTGGCAGAATTCGTTGCAGGATCTGACTTCGCCGCCGTC
 CGTGGTGGCCAGTTGTCCACCGTGATCACCGAGCGCCCCAAGCCACTCGGCGCGATTGTGCGCCACGAA
 GGCGGCGCAGTTTCCGATGAATACGAAGCAGTGGAATGATGACATTGCATCATTCTCCGGATCCTTC
 ATCGGTGGCGGAACCGCAACCTCCAGGTCAGCCGCATTTCCCAGGGACACCCAAACACCCTAGGTTTT
 GAAGTGTCTGTGAAAAGGGCTCCGTGCTCTTTGATTTCCGCAACTCAGGCGAATTCAAAATCTTCACC
 CCAGCAACCTCCGGTGACATCAGCCAAGAAGCCGGCTACCGCACCATCACCATCGGACCAAGCACCCA
 TACTGGCGCGGCGGCTTGCATGGATGCACCAGGCGTGGAATTTGCCAAAACGAAGGCTTCGTTTTTC
 CAGGCGCGCGCATTCCTCGAAGAAATCGCAGGAATCTCCGAAGCTGAAAGCCTGCCACGCTGCGCAACT
 TTGGAAGAAGGGCTACACAATATGCAGCTCATTGATGCTGTATCACAGTCAGCTGCAGCAGGTGGCGAA
 ACCGTTGCGGTCCCAGCGGCTGCTCTGATCCCTGCAAACAAC
 RXS03215 - 3'-Region
 TAGAACTATTTCAGAAAGCATCACCATGAA

>RXS03224 - 5'-Region
 ACGATTGTGCTGTGCTTTTGGCTTGGTGAATAGTTCTGGACCGGGTATTTTGGCGCGCACATGGAAGTCA
 TTGAACGCCGCGCCCGGCTAAGGTGGGAGGC

>RXS03224 - coding Region
 ATGAGTTTTGCTGAACATGCGATCATCTGGCACGTCTACCCCTGGGCGCTTTGGGTGCTCCCATCCGG
 CCTGAAGCCCCCGCACCTGTACACATCGGCTCCCCAATCTAATTGGGTGGCTGGATTATGTTGTGAA
 CTAGGCTGCAACGCCCTCATGCTGGGACCGGTATTCGAGTCCGTGAGCCACGGCTACGACACCCTCGAT
 TTCTACCGCATCGACCGCGCCTCGGCACCGAGGAAGACATGGACGCGCTGCTGGAGGCTGCGAATCAG
 CGGGGCATTGGAGTGCTTTTCGACGGCGCTTTCAATCATGTTTCCAGTTCTCTAAATATCTCGACCTG
 ACCACCGGGGCGTCATTTGAAGGCCACGACATCCTGGCGGAATCGACCACACGAATCCCGCCGTAGTG
 GATCTGGTTGTGATGTGATGAACCACTGGCTCGACCGCGGAATCGCAGGCTGGCGACTCGACGCTGTC
 TACGCCATCGCCCTGAATTTTGGGAAAAGTCTGCCAGAAGTGCGACGAAAACACCCACACGCGATGG
 ATCGTGGGGGAGATGATCCATGGAGATTACTCCGACTACGTGAAAAGCTCCGGCATTGATTCCGTTACC
 GAATACGAAGTGTGGAAAGCCATTTGGAGCAGCATCAAAGAGCGCAATTTCTTTGAACTCGAATGGACT
 TTGAGTCGCCACAATGAATTCCTCGATACTTTCTGACCGCAGACATTCATTGGTAACCATGACGTCACC
 CGCATTGCCACCCGAATCGGTCAATCAAATGCGATCCTGGCCGCGAGCGATCCTCTTCACGGTCGGAGGA
 ACCCAAGCATTTACTACGGCGATGAGCAGGGCTTTACGGGATTGAAAGAGGATAACGTTTTTCGGTGAC
 GATGCCATTAGGCCACCTCTTCTGCCGAGTTTTCTCCACTGGGCACCTGGATTGAAAACATTTATAAG
 GCTCTGATCGCGCTGCGCAGGCAACACCCGTGGTTGTATCAGGCGCACACCGAAGTCCTTGAGATTGCT
 AATGAAGCGATGACCTATAAGTCCGTCCGTCTTGGAGGTGAAGAGCTGACAGTGCATCTTGATTTGGAA
 GAGGTGTCTGTTCCGATCCTTGATGGCGAGAAGGTGCTGTTTCAGTACAGCGCT

>RXS03224 - 3'-Region
 TAGTTGTGCGGTTCAAGGGTAGGGGAACAAA

>RXC00233 - 5'-Region

CGCCTCCAGCAGTTGAGGGAGAAGTTCCAACACTTGCACCAACTGAGGAAGCAACTGTGCAATAGCGCT
TTAGACACAGACTCATGACAGAATAGAAGAC

>RXC00233 - coding Region

ATGAGTGTGAATGAAGCAGATCTGAACGCTGTGCAAGAGCAATTGGGAAGGGCCCCACGAGGTGTCCTC
GATATTTCTTACCGCAGCCCTGATGGAGTACCCGGTGTGGTGATGACCGCACCAAACTGGATGACGGA
ACCCCATTTCCCAACCCTGTACTACTTGACAGATCCACGCCTGACCACCGAGGCATCCCGCCTCGAGGTC
GCATTGGTAATGAAGTGGATGACTGATCGCCTTTCCACCGACGAAGAGCTTCGTGCCGACTACCAGCGC
GCCCACGAGCACTTCCTGGCAAAGCGCAACGCAATTGAAGATCTCGGCACGGATTTTCCGGCGGTGGC
ATGCCTGACCGAGTGAAGTGCCTTCACGTCTCATTGACTATGCACTGGCAGAAGGCCACACCATTTC
CTT

>RXC00236 - 5'-Region

AATGCGAGAGTTCTAAAAACGAGCCGGTAACATCGACCCCCATGAGTTCAGGGGTTAGAAAAGCAATGGG
ATTTGGATGCGGTTTCGGTTTTGGCCGTCATC

>RXC00236 - coding Region

ATGGTGATCTCATTTGTTGGATGGGCGCTCAGCTTCATGGATGGAACGGCACCTATTGCGCAACTCCAG
CAAATCCCTGAAGATGTTCCGCCGGCGCGTGGTGTAGAAGTTCCGCAAATTGATACAGAGGCAGATGGA
CGCACATCCAACCATTTGCGTTTTTGGGCGGAACCAATTGCTCAAGATACTGGTGTGTCCGCTCAAGCG
ATTGCGGCTTATGGAAACGCAGAGCTCATCGCGAGTACTGCGTGGCCTGGCTGCAATCTGGGGTGGAA
ACCTTGGCAGGTATCGGCCAGGTGGAAACCCGTACGGTACCTACAACGGCAAAATGTTCCGGGGCAGT
TCCCTGGATGAAAATGGAGTTGCAACCCCTCCAATCATCGGCGTTCCACTTGATGGTTACCGGGGTTT
GCGGAAATTCCCGACACTGATGGTGGGGAATTAGATGGCGATACTGAATATGATCGCGCGGTAGGTCCC
ATGCAGTTTCAATCCGGAAACGTGGCGACTTATGGGATTGGATGCAACGGTGATGGGGTAGCGGACCCC
AACCAAATTGATGACGCAGCATTGAGTGCCGCAAACTGTTGTGTTCCAACGATCGTGACTTGTCCACT
CCTGAAGGATGGACCGCAGCTGTTCAATCTTACAACATGTCTAATCAGTATTTGATGGACGTTTCAGAT
GCTGCCGCGTCTACGCTTTACGACAGCCGGCGATC

>RXC00236 - 3'-Region

TAAAACTTAACAAGCGCAACCCC

>RXC00271 - 5'-Region

TAGTTTAAATCATGAGACATTTACATATGGTTCTTTATCCGAGACATGTGTTGACGCTGTCTGCCCT
TTTTGAAAATAACACTTTAAGGAGATGTGCC

>RXC00271 - coding Region

ATGTTTTCTTCCCGTTGGAAGGTACTCGCAAGCATCTTTACTGTTGGCGCCTTGGCGTTGGCTTCGTGC
TCAAGCGATTCCAGTGACAGCTCCACCTCCACTGATGCTGCAGGTGGCGACTCTTACCGAGTTGGCATC
AACCAGCTTGTTTCAGCACCTTGCACTTGATGCAGCGACCACTGGTTTCAAGGAAGCTTTTGAAGAGGCA
GGCGTTGACGTACCTTTGATGAGCAAAACGCTAACGGCGAGCAGGGCACTGCACTGACTATTTCTCAG
CAGTTGCTTCTGACAATTTGGATCTCGTGTGGCTGTTGCAACTCCAGCAGCACAGGCAACTGCGCAG
AATATCACTGATATCCCACTCTGTTACCGCAGTTACCGATGCAGTGTGGCAGAGCTGGTGGATTCT
AATGAAGCAGCTGGCGGAAACGTACCGGTACTTCTGATATCGCACCGATTGAGCAGCAGTTGGAGCTT
TTGCAGCAGCTGGTTTCTGACGCAAAGTCCATCGGCATCGTCTACGCGTCTGGTGAGGTCAACTCTCAG
GTGCAGGTGATGAGGTACCAAGGCTGCTGAGCCACTGGGGCTGTCCGTTAATACTCAGACTGTCACT
ACCGTGAACGAGATTACGAGGCTGTTGAAGCTCTCGGCGATGTTGATGTCATCTACGTTCCAAGTAC
AACATGGTTGTTTCCGGTATTTCTTCTCTGGTTTCAGGTTGCTGAGCAGAAGCAGATCCCTGTGATCGGC
GCTGAGTCCGGCACTGTTGAGGGTGGCGCACTGGCAACCCTGGGTATCGATTACACCGAGCTTGGCCGC
CAGACTGGTGAGATGGCTCTGCGTATTTCTGCAGGACGGCGAAGACCCAGCAACCATGCCGTGGAGACT
GCAACTGAGTTCACCTACGTGATCAACGAAGATGCAGCAGAGCGCCAGGGCGTGAGATCCCTCAAGAG
ATTTTGGATAAGGCCGAACGCGTA

>RXC00271 - 3'-Region

TGATCGGCGCTTTTGGAGTTCGGA

>RXC00338 - 5'-Region

TCTTAGAAGGCGTAGTCACACCATTAACTTGGCAGAATTTTTCAAGGCTTGGCTAGACTTGGGAAACG
AACATGCGGTACCAACCAGGGGAGTTAATGC

>RXC00338 - coding Region

GTGAGTGATGTAACCGTTGGCGATATTCGCCGCATTTTGGATGAGGCTTATCCGCCGGCGTTGGCGGAA
 AGCTGGGACAAAGTGGGGCTGATCTGCGGTGATCCAACAGAGTCGGTGAAGCGTGTGCGTTTAGCACTC
 GATTGCACCCAGGCAGTGGCCGACAAGGCTGTGGACATGGGTTTGGACATGCTGATCATTACCACCCA
 TTGCTGCTGCGTGGGGTGACGTCTGTTGCTGCGGATGAGCCAAAAGGCAAGGTCATTACACCCTAATT
 CGCGGGCGGGTGGCACTGTTTTCCGCGCACACTAATGCGGATTCCGCGCGCCCAGGTGTCAACGATAAA
 CTCGCCGAGCTCGTCGGCATCACGGCCGGGCGACCCATCGCGACACGGCTTTTAGGCGGCATGGACAAA
 TGGGGCGTGCACGTTCTGCCAAGGATGCAGCGTACCTAAAGAAGATGCTTTTCGACGCAGGTGCCGGT
 GCGATCGGGGACTACCGAGAGTGTGCCTTTGAGATCGAAGGAACCGGGCAGTTTAGGCCCGTGGAGGGG
 GCGAATCCGGCAGAGGGGGACGTCGATAAGCTTTTTAAATCCCTTGAGCTGCGCATCGAGTTTGTGCA
 CCGCGCAACCTGCGCGCCCGGCTCACGTGCGTGTGCGGGAGGCTCATCCGTATGAGGAGCCTGCCTTC
 GATATTGTTGAAATGCACAGCGCTGAGAGTTTAGAAAATGCGACCGGATTGGGTGCTGTGGGTGAATTG
 CCGGAGCCGATGCGCCTCGCGGATTTCTGTCAACAAGTGGCCAACAACCTGCCTGTACCGAATGGGGC
 GTGCGCGCTACCGGCGATCCTGAACAAATGGTGTCCCGTGTGGCGGTTTCATCAGGGTCGGGTGACAGT
 TTCTTAAACGATGTGATTAAGCTCGGAGTGGACGTTTATGTCACTTCTGATCTGCGCCACCATCCAGTT
 GATGAATATCTCCGAGAAGGTGGCCCTGCAGTAATCGATACTGCACACTGGGCCAGCGAATTTCCATGG
 ACTTCCCAAGCCCAAGAAATTTGCAGGACAAAGCCCCACAGGTTGAAGTTGATGTGATTTTCGATCCGC
 ACAGACCCCTGGACCATGTCTGCGCGAGCAGTGAAC

>RXC00338 - 3'-Region
 TAAATTCTTGAGAACTAAAAAAG

>RXC00362 - 5'-Region
 CACTTTTTTGGGTGAAAATTCCACGAAGTTAATGCCGCTTTAAGTCAATTCAATCACATGTAACATGCTA
 CGGTTTTTTTCGGTCACTTAAAGGAGGCGCTT

>RXC00362 - coding Region
 ATGGGAATCATTGCTCTGCTCGTTTTTATCGCAATTGCCGTGATATTGAATGTGTTTTTGAACGAGAT
 ATTTTCAGAAGCATTGCTAGTTGGATTAGTAGGAAGTGCAGCTTGTGCGCGGTGTAAATGCACCGACATTA
 CTGATTGATGCTGTAGTGGATGCTGCTCAGTCGGAAGTTACTTTTCGAGGTATGGCCTTTGTTTTTCATG
 GGCATCGTTGTGCAATCAACTGGATTGATTGATCGATTAATCGCAATCCTTAACCTCGATTTTTTGGTCCG
 CTTTCGAGGTGGCGCAGGTTATGTTTCCACTCTTGGATCTGCGCTCATTGGACTCATCGCTGGATCAACG
 GCTGGAAACTCCGCGACGGTTGGCTCAGTGACGATCCCTTGGATGAAAAAGACGGGATGGACTGCTGAA
 AGGTCCGCAACGTTAGTCGCGGGCAACTCTGGCCTTGGTGTGCGTTGCCTCCCAATTCAACAATGTTTC
 ATCATTTTGGCATTCCAGCTGCAGCAGCTTCTCGGCCTCTCAGGTGTACATTGCTTTGGCTTGTGGT
 GGTGCGTATGCAGTGCTCTACCGCTTAGCGGTGCTCTTTTACTGGACACGTAAAGATAAAATTCCTGCC
 ACCCCTGATGATCAACGGGTGTCATTCCGTGAGGCAATGAAGACTGGATGGCGTTACCGTTGATCTTC
 CTTGGAATTTTATGATCCCGTAATCCTCACAATCGGCCCATTTGTCTGAATGGTTAAAGACACATGGAGTT
 GGGGAGTCTGGTGTAAATCGATGTCGATCATCGTGTGGGTGCCAATTCTGATTACGGCAATTGCTCTG
 ATTGAAGGGCGTAACGAATTGCTAACAACATGGCACACTTTAGGGTTTCAGATCTCCAAGGACTTGCCA
 CAATTTCCACCGTAGGAATTTTCGTTGTTTTCTGCGCTTGCAGCAGCGAACATCATGGAAGAACTGGGT
 GTTGGCCCGCAGTTGTCTAACTGGCTTGATTCCATGGACCTACCTAAGTCTGTGATGGTGATCATTGTC
 TGCATCATGTGCATTGTGGTGGCAACGCCACTGTGCTCAACAGCAACCGCGGCTGCGATTGGTGTCTCC
 GCTGCTCGTTCGCTTGGCTGCGGTAGGTATTGATCCAACCTGTGGCGATCGTAGTGATCTTGGCTGTGCACT
 TCCACTGAAGGTGCATCCCCGCGGTGGCGCGCCGATTTACCTTTCTGCTGCGATCGCCGATGCAAAAC
 CCAACGAAAATGTTCTGTAACCTGATTACGTACTTTGTTGTCCCCATGATTCTGCTTGCTTGGCTAGTT
 GGAATGGGATTCTTACCAGTGATTGTTCCCTACGGGT

>RXC00362 - 3'-Region
 TAAAGGGGTAAAAATGAACTCAA

>RXC00412 - 5'-Region
 CTTTTGACGAACACCACGTGCGGTACGCTTCCTCGGGGCGTTAAACTATTTGTCTTCCAGCTTTTGTCC
 CCCGACTTTTGTACGAATCGAGGACACCGTC

>RXC00412 - coding Region
 GTGTACACACCGCGTCCACACCGACGCCAGAGGAATACTCCGCGCAGCAACCCAGCACCCAGGGCACT
 CGCGTTGAGTTCCGCGGCATAACCAAAGTCTTTAGCAACAATAAATCTGCTAAACCACCGCGCTTGAT
 AATGTCACTCTCACCGTAGAACCCGGTGAGGTAATCGGCATCATCGGTTACTCTGGCGCCGGCAAGTCC
 ACTCTTGTCCGCCTCATCAATGGCCTTGACTCCCCACGAGCGGTTTCGTTGCTGCTCAACGGCACCGAC
 ATCGTCGGAATGCCCGAGTCTAAGCTGCGTAAACTGCGCAGTAATATCGGCATGATTTTCCAGCAGTTC
 AACCTGTTCCAGTCGCGTACTGCGGCTGGAATGTGGAGTACCCGCTGGAAGTTGCCAAGATGGACAAG

GCAGCTCGTAAAGCTCGCGTGCAAGAAATGCTCGAGTTCGTGCGCCTGGGCGACAAAGGCAAAAACACTAC
 CCGGAGCAGCTGTGCGGCGGCCAGAAGCAGCGCGTTCGGCATTGCCCGTGCACTGGCCACCAATCCAACG
 CTTTTGCTTGCCGACGAAGCCACCTCCGCTTTGGACCCAGAAACCACCCATGAAGTTCTGGAGCTGCTG
 CGCAAGGTAAACCGCGAACTGGGCATCACCATCGTTGTGATCACCCACGAAATGGAAGTTGTGCGTTCC
 ATCGCAGACAAGGTTGCTGTGATGGAATCCGGCAAAGTTGTGGAATACGGCAGCGTCTACGAGGTGTTT
 TCCAATCCACAAACACAGGTTGCTCAAAAGTTTCGTGGCCACCGCGCTGCGTAACACCCAGACCAAGTG
 GAATCGGAAGATCTGCTTAGCCATGAGGGACGTCTGTTACCATTGATCTGACTGAAACGTCCGGCTTC
 TTTGCAGCAACCGCTCGTGCTGCCGAACAAGGTGCTTTTGTCAACATCGTTACGGTGGCGTGACCACC
 TTGCAACGCCAATCATTTGGCAAATGACTGTTGACTCACCGGCAACACCGCTGCGATTGAAGAGTTC
 TATCAAACCTTGACCAAGACCACGACCATCAAGGAGATCACCCGA

>RXC00412 - 3'-Region
 TGAACGAGATGATCCTCGCAGCT

>RXC00526 - 5'-Region
 GGTGGAGCAGGCGGCGCTCCTTTTAGTCCTGCGGCCCCCTTTTGACCCTGCAGCCCCCTGCCGTTTCTGC
 CAAGCAAACCGTGGGCCAGGTGATTTAGCCT

>RXC00526 - coding Region
 ATGAGCCTCATCGAAATGCGAAATATTGTCAAGACCTACAACATTGGATCTGAAGGTGAACTCACCGTG
 TTGCACGGTGTGGATTTCATGTGGACCGTGGCGAATTCGTGTGCGTTGTGGGTACGTCCGGCTCAGGT
 AAATCAACGATGATGAACATCATTTGGGTTGTTGGATAAGCCAACTGATGGCACGTACACCTTGGATGGC
 GTGGATGTGTTGGATATCAGCGATGATGCTTTGGCGAGCCACCGCGCTAAATCGATTGGTTTTGTGTTT
 CAGAACTTCAATCTGATTGGCCGGATCGATGCGTTGAAGAATGTGGAAATGCCCATGATGTATGCGGGC
 ATTCCGGCTAAGCAGCGGAGAAGTCGTGCGGTTGAATTATTGGAAATGGTCGGGATGGGTGAGCGTCTC
 AACCATGAGCCCCAATGAGCTTTCCGGGTGGTCAGAAGCAGCGCGTGGCCATTGCTCGCGCGTTGGCGAAC
 GATCCTGAGATCATTTCTGCTGATGAACCAACTGGTGCGTTGGATTCTGCAACGGGCGCGATGGTGATG
 GATATTTTCCACCAGCTCAACAAGGAGCAGGGCAAAACCATCGTGTATTATTACTCACAACCCCTGAGCTT
 GCTGATGAATCTGATCGGCTGGTCACCATGGTTGACGGGCGCATCATTTGGTCTGAGGTGAAACACTCA

>RXC00526 - 3'-Region
 TGAGCCTTGCAAGATCAATTCTT

>RXC01004 - 5'-Region
 CCGGACGCTGGATCGCACGAGTAACGGTCATGGAAGATCGACGCATCGACAAAGCCGTTCTCACCCCCA
 TCACCCATGAAGAAGCAAAGGAGTACGAAA

>RXC01004 - coding Region
 GTGAGTATTTGGGCAACTGTCCTTCTAATTATCGTCCTTCTTTCCGCCAACGCCTTCTTCGTGGCCGCG
 GAGTTTCGCACTGATTTCTCGCGCCGGGACCGCCTGGATTCCCTGGTATCCAGGGTAAAAAGGGAGCT
 GAAAAGGTTCTCTACGCAACCGAGCACCTCTCCATCATGTTGGCGGGCGCTCAGTTCGGTATTACGGTC
 TGTCTCTGATCTGGGTAAAGTCGCAGAACCTGCGATCGCCCACTTCATTGAGGTGCCTTTACCTTC
 TGGGGTGTTCAAATGATTTGATCCACCCAATTTCTTCGTATCGCACTGGCGATCATCACCTGGTTG
 CACATTCTCTTTGGTGAAATCGTGCCAAAGAACATCGCTATTGCTGGCCCTGAAACCTTAGGCATGTGG
 CTTGCTCCAGTGCTCATTGCGTTTGTGAAGATTACCGCCCCGTTGATCGAGTTCATGAAGTGGATCGCC
 CGTCTGACCCTTCGCGCCTTTGGTGTGGAGCAAAAAACGAGCTGGATTCCACCGTGGACCCAGAGCAG
 CTGGCATCAATGATTTCCGAGTCCCGTTCCGAAGGCCTCCTTGATGCTGAAGAGCACGCCCCGCTGTCC
 AAGGCGCTGCGCTCTGAGCAGCGTTCCATCAAGGAAGTGGTGAATTAAGGATGAGGACGTGCGCACGCTG
 GCGTTCCGTAAATCTGGCCCCGACCTTGACCAAGTTGGAGGAAGCAGTCCGCGAGACCGGTTTCTCCCGC
 TTCCCTGTACCGGCCGCGATGGATCCTACTTGGGTTATATCCACATCAAGGATATTTTGCTCTGCTG
 GCTGATCCTGAGATGGATCCCTCCGAGACCATTCGCGTTCTGCACTGCGCCCTTTGAGCAATGTGGAT
 GCGGACGGCCTCATGGATGACGCTCTTGGATTTTATGCACTACCGCTCCGCGCACATGGCTCAGGTTGCG
 CTCAAAGGTGAGCTTCTCGCGTGATTACGCTGGAGGATCTCATCGAAGAATACGTGGGCACCGTCAAC
 GATTGGACTCACGAAAGCTCCGACGAC

>RXC01004 - 3'-Region
 TAGAAATAGTAACGTGTGTTGGAC

>RXC01017 - 5'-Region
 GAAATTTGAGGGGGCGCTACCTTAGAAGGTGCGCAATGACACCACGATAGTTCCGCGCCTAGTGTGGAT
 TGCTAGAAAACCTTAAGAAAGAGGAAATAAT

>RXC01017 - coding Region

ATGGGCTCAAAAAGTAACCTTCTGGTTCGATACCACCTGCCCATTCTGCTGGGTACCTCCCGCTGGATT
AAGGAAGTCGAACAAGTCCGCGATATTGAAATCCAGTGGGTTCGAATGAGCCTCGCTGTCTAAACGAA
GGCCGTGATCTCCCAGAGGATTACAAGGAGCGCATGAAGGCTGCATGGGGACCAGCACGCGTTTTTCGCA
GCTGTGCCACCGACCATGCTGACAAGCTCGGCGACCTGTACACCGCAATGGGTACCCGCATCCACAAC
GACGGTCGCGGACCAATCGAAGGTTCCCTTCAATGATGTTCATCGCAGAGGCACTTGAAGAGGTGCGCCTA
GACGCTGCACTTGGTGAAGTTGCAGACACCACCGAATGGGACGACGCACTTCGCGCATTCACCAGACC
GCAATGGACGAGGTGCGCAACGATGTGGAACCCAGTGGTCAAGCTCGGCGACACCGCTTTCTTCGGC
CCAGTGCTCACCCGCATCCACGCGGCGAGGAAGCAGGAGAGATCTTCGACGCTTCCTTCAAGCTCGCA
AGCTATCCCCACTTCTTTGAAATCAAGCGCAGCCGCACTGAGAACCCACAGTTCGAC

>RXC01017 - 3'-Region

TAATTAACGCTGTCTCTGCTTAT

>RXC01021 - 5'-Region

CGAGAGGCTTTTTTGGCTCTAAGCCTTTTAGTCGTGCGAACGAAATCTTAAGCAGCCTCGGTGCCACCG
AGATCGATTGGTCGCTGTAAGGTATCTGATT

>RXC01021 - coding Region

ATGTCCAGTTCGGAAAGCTCGCGTTCGGAAGGCTCGCAGCCAGCACCGTCTGTACAGCCTGAACGCCGT
GCTGATTCAACGGGGGCTCCTGCGGCAGCTTCCAAGGAAGCTTCCCAACAAATGGACGCTGCCGGAGTT
CTTGAGTGGGCCAGGACCGCTGTGAGCAGCTTTCTGAACGTCGTGCAGAGATCAATGCACTGAATGTC
TTTCCTGTTCCAGATGCAGACACTGGATCAACATGACCTACACCATGACAGCTGCGTTGGATGAAGCG
CTGAAACTGGGGGAGTTGGGTGATGTGCGAAGGATTACTGAGGCTTTGGCTGTGGTTCTGTGCGTGGA
GCCCCGAGGAAATTCTGGAGTAGTCCTTAGTCAGGTCTTCGCGCTATTGCTCAGGCAGCTGCTGACGGG
GTTATTGATGGCCACACAATCCAAGAAGCGCTATCCATTGCTCGCTCCCTAGTTGATCGCGCAATTACA
GATCCTGTGGAGGGCACTGTTGTCACTGTGTTGCGTTCT

>RXC01212 - 5'-Region

TTTAGAAGCCACATGACATATGTCATGAAAATTATGTGCAAAGTGCAGTAATACTCCTGACATATGGCT
CTACCAGCGCCAATGCGAAGTAGGAAGAATT

>RXC01212 - coding Region

ATGCCTATGACAACGACACCAGCAATCGACGTAACAGACCTCGTGAGAACCTACGGCGACTACACCGCA
GTCAAGGGCCTGAATTTCCATGTACAGCGCGGTGAAGTATTTGGTCTGCTCGGCACCAACGGGGCCGGG
AAAACCTCCACCTTGGAAGTCATCGAAGGACTTTCCGCACCCAGCTCCGGCACCGTGCGCATCTCCGGG
CTTGACCCCGTTGCCGACCGCGCGATCCTGCGCCCCGAGCTCGGCATCATGCTGCAATCAGGCGGCCTG
CCATCACAGCTCACCGTCGCCGAAACCATGGACATGTGGCACGGCACCTGCACGTATCCGCGCGCCATT
AAAGATGTGCTTGCCGACGTCGACCTCCTACACCGCGAAAACGTCAAGGTGCGCGCGCTTTCCGGAGGC
GAACAACGACGCGCTTGATTGCGCTGCGCACTGCTTGGCGACCCCTCAATTTGTTCTCGACGAACCC
ACCACCGGCTCGACCCAGAATCTAGGCGCCACACCTGGCAACTCCTGCTGGACCTGAAACAGCGCGGC
GTCACCATGATGCTGACCAACCCACTACCTGGAGGAAGCCGAATTCCTCTGCGACCGGATTGCCATCATG
AACGCCGGTGAGATCGCAGTGAAGGCACCTTGATGAACTGGTGGCCGCGAGAAGTCGATCATCAGT
TTCGTGCTGCGTGGCGGGCAGGTGGAGTTGCCGGTCTTGAGTGGGGCTGAAATCATCCGCGACAACAAC
CACGTCCGCATCGCCACCACCCCTGCAGCAGCACACCTTAGAAATACTTACCTGGGCTGCAGAGACC
GGGATCGCGCTGGAAGGCTTCGCTGCAAAACCCGCCACCTTGAATCCGTATTTCATGGACATCGCCTCA
CTCGAGAACACCTCGCTGCAAAACCGCC

>RXC01212 - 3'-Region

TAGAATCTTTAAGGAGACCACAA

>RXC01306 - 5'-Region

TGTTTTAGAGGTAGAGCGAAACGTGCCTGTAAAACCTGGCGCTCGCTGTGCTCGAAGACCACCCAGACAA
TCACCCCGCTCCGAAGGAGAATCGCTAAGCC

>RXC01306 - coding Region

ATGACTGAATGGTATGTGCTTTACCCGCCACTATTCTACTCATCGCGCTGTCTGCGTTTTTCGTCATC
ATTGAGTTCGCTTTGCTTGCAGCTAGGCGGAACCGGTTAGAGGAGACTGTGGAACCTCGCGGTCTTCC
CGCGCTGCGTTGCGAAGCCTCAATGAACTTACTCTCATGCTCGCGGGCGCGCAGTTGGGAATCACCATG

GTGACTTTTCGCGTTGGGTGCTATCACGAAGCCGTGGGTTCATTATGCTTTGATGCCGCTCTTCGAATGG
GCGCGTATACCGCTGGTTATGGCAGATGTCATTGCGTTTATTTTGTGCTGTTTATCGTAACGTTTCTG
CACTTGGTCATCGGCGAAATGGCTCCGAAATCCTGGGCAATCGCGCATCCGGAGACGGCACTTCGAAC
ATCGCGATTCCCGCACGGGGCTTCATTAACTGTTTTCGTCCATTGCTGCAGTGGATCAACAAAATGGCG
AACGATTTGGTCCGCAAGTTGGTGAACTCCCGTTGATCGAGCTGCAGCTGGTGGCTATGACACCGAT
ACCCTCCATGCCCTCATTGAGCATTCCTGAGAACTGGCGCTCTGGATCAGCAATCCGCCGCCCAAATC
AGCGGAATTATCAAGCTGGATAAAATCACGGTCGGTCAAACCTGACCGCATCTCCATTACGCACAGC
GCCAGCGCCACGGTTGCTGAGGTGCAAGCCGAGCTCAGCGCAGTGGCAGCTTGCCTGTGCTTATCGAC
GCCCCCTCCACCTTTTCCACACGTCATTATGTGCGAGACACCCTTGGTGCCTCGCCAGACGAGAAG
GCTTCGAAGTGGTCTCGCCCAATCCTCACCGTTGCTGAGACCGACACGTTACACCAAGCGCTGGAATAC
ATGCGGGAGCATAACGAGCAGATCAGTGCCTGCTTTCCGCTGATGGGAAAACGGTGCTTGGTGTAA
ACTTGGGATCACATCTTGAAATACCTGTGGCCTGCATCGGTG
RXC01306 - 3'-Region
TAGCTAATTTGAGGTGCGCTGAA

>RXC01366 - 5'-Region
ATGCATGAAAACAAATCTATGTGTGTTGAGCTGCCAAAAGGGTTGGCGCGCCGATGATGACTGTCCA
AACCTAAACCAAAGGTCTAAACTTTGGCTTC

>RXC01366 - coding Region
GTGAGTCAGTTTCGTCGTTGTTCCCGCCCTGGTTGTGGCAAGCCTGCCGTGCAACCCTCACCTACGCA
TATTCGGATTCCACTGCGGTGGTTGGTCCCTTTGGCGCCTGCAGCAGAGCCCCATAGTTGGGATCTGTGT
GAGCATCATGCCGAGCGTATTACTGCGCCCTTGGTTGGGAGATGCTGCGGGTGAACGACATCAAAGTC
GATGACGATGAGGATCTGACGGCTCTTGCTCAGGCTGTTTCGTGAGGCTGGACGCACTGTGAGTGGTCTG
GTTTCTGAAGACGAAGTGGGCGGCAACCATCCGGTGAACCGGAGTGCCTGGATCGCGGAACAGAAGGTT
CACCGCAGGGGTCTATCTATGTTGTGCTGATCAGGACGAATCA

>RXC01366 - 3'-Region
TAAGCTTTGCTATTTCGGATTGGA

>RXC01372 - coding Region
CAGGACACCTTCGTCCTTCCACCTTGCCACGGCCGAGGCTTGTCGCCTGCCCGCATCGTGGCGTGC
ATAAGCACTCTTTTAGATCTTTTAGAAGCAGACCCAGCATTTATTTCCGACCGCTTGGAAACACCTCGCC
GACTGCATTGATGAGGAAGTGAATCGCTATCGCCGGAACGTGACGAAGTAGTCAATCCCGGCCGAAAA
CTGCGCGCATACGTAGATCACGCACGGATCGTGCATACCGGCCGAACGTGATGTGGGACTCGCGATTGCC
AACGTTATCGCCCCAATCTGGACCCGACGAGGCTGGTATCAGCCGTGCTGGATTTTCCCGAGCTCATG
GAATCATTGCCGGAACCTCGCGGACCCGAGCCAATTACCGACGATATATTCATGACCCATTCTAGAT
GACGAACCCGGGGTGGTACCGTTTAGGGCTGTTGTCTGGGCCGAAGAGGAACCCGGAATCCCGATGCC
ATGGCGCAAAGCTGCGACGACCTAGCAAAGGGGCGCTGACACAAGCACTGCCCTTGTGCTGGTGCCTGGA
CAGTCAGCCACGACCTATTCCATTGAAGAAAAGGACTTG

>RXC01372 - 3'-Region
TAAATGGAGCTATTGGAAGGCTC

>RXC01659 - 5'-Region
TTGATGCGCGCCGCGGTGAGCAGCCTGCCGATCCAGAGCGTGAAGAATCTGATGATTTAGTCGAGATTG
ATACCGTCTCTGGATTCCGCCTGCTCAGTAC

>RXC01659 - coding Region
GTGGCGGGGGTTGCGCAGCGTTTGTGACGAGCGCATTCACGTCCGTTTGGATTCCATGCCAGAAGCT
TGACTGCTGTGTGGATGGAATCTGATTGGGTGTTGGCGGAAACCATCAAGGGTTCCACGCCTTCCGAT
TGGGAAGAGATTTTGGCGCCGTGGCGCTGCTCACGGACGCGTCTTTCACGTTGCCACCTCGTTCCACG
CGTGGCGCAACCTTGGATTTGAAGCATTTGGAACCAAGCCGTCTGAAGCCGGAGCAGCCAGAAAAGCCA
GCGTTTACTCCCAATGCTTCGGAAGAAGATTTGTCTCAGCCGTTGGTGTATCCGCCCCGAGGAGCCGTTG
CAGATGCCGGTTGCGGGTGTGCAGGAAAGCCGCGGAGTGGTGCAGCCACGGTCATTGGGTGCGGATGAT
GTGGAGTCGATTGCGGAGGGCGATCCAGAGCGTCCGAGCGATCTTTATGGCACGCGTGTGCTGCGTGT
CTCAATGGTCAGTCCAGTATTTTCCAAGATTCCACCGACGCGGATGAGCCACCAAAAAAGTGG

>RXC01659 - 3'-Region
TAGAAAACCTGGTGTTTTTCGGCC

>RXC01663 - 5'-Region

TATTTTGTGTTGGTCACAGTGGAGCGCTAACCCGAGAATCCTATCGAGGCCTAAAATCGTGGCTTG
AGTACGCACTGCCAGTAAGGTGTGTGATGTG

>RXC01663 - coding Region

ATGGAAATAAGTGTCTTGATCATCGCCGCACTGATCTTGGTGGCAGGCATCGTACTGTGGCGCGCGGAC
TCGTCTAAACAGGCAGCTAAAAAGGCTGAATCACCTGTGGGCTCAGTCGCACCTGCGCCCGTGTGGTT
GAAGAAGAGCCGGACCCGTGAGTTTGAGCCAGAAGTGGACCCCTGAACCAGAAGCGCAACCAGAACCAGAG
CTGGAAGTTGCGCCTAGATTTGCGCCAGAACCAGTTCAAGATCTTGAGCCGGATCAGGCTGAGGACATT
TATTTTGATGATTCCCCTGAACTCGATGCTGATGTTGAAAATGCCTTGGCTGAGCTTACTGAGGTAGAA
GACTACCCGGAAGAGCCAGTGCAGTCTGAGCAACCTCAAGCCCCTGCCACGGCGGAGGTAGCTGCGGAC
GAGGAGCAACGGGGCGTGCATAAGCATTCTGTTTTTGTAGCTCTTTGCCCTGGTTTCGCAGCGCCGGGAGCGC
CGAAACTGGGCGGCGAAGCACCCTTCGATTTTCATCAAGGAAGATGCCTTTTGTACCGATGAATGGTCA
AGGGGTGCGGCATCGACTGGTGCCGTTGCACGTGATGTGGTCAGTGGCATGGCTGAAGGATATGAAACG
CATCTGGTGGATTGCGGGCGTGCCCGTGTATGGCGATGCGCCGTGGAATTACCTCTGACGTGGTCATT
GATGCGCGCCGGTGAGCAGCCTGCCGATCCAGAGCGTGAAGAATCTGATGATTTAGTCGAGATTGAT
ACCGTCTCTGGATTCCGCTGCTCAGTACGTGGCGGGGTTGCGCAGCGTTTGTGACGAGCGCATTC
ACGTCGGTTTGGATTCCATGCCAGAAGCTG

>RXC01663 - 3'-Region

TGACTGCTGTGTGGATGGAATCT

>RXC01693 - 5'-Region

AGGAGACTGGCTGGATTATTGGCTGGTTTTCTTGGGAAATCGTCATGGGCATTAATCCTAGTCCCAACA
ATTGCCAGAACCCGAACACTAGGCTTGAACC

>RXC01693 - coding Region

ATGAATACTGCACCTTTCAAACCTCGAAGCTGACTTCGCATCAGCCCTGCCACCATGGCAGCCCCCTGG
CAAGGTGAGGAAGCCCCCAACCCTGAGCTCGTGATTTTAAATGACGACCTCGCCTACAGCCTCGGGCTT
GATCCGACATGGCTTCGCACACCTGAGGGCGTTCAATTTCTTCTCGGACTCAACCCCGAGCCCTTAACA
AAAGCAGTTGCGCAGGCCTATTCCGGCCACCAATTCGGACAGTTTGTGGCAAGCCTTGGTGATGGCCGA
GCGCTTCTTCTCGGCGAAGCCCGCTCAGCTGACGGCGTACTGCATGATATCCACCTCAAAGGATCTGGA
CGAACCAATTCTCCCGAGGAGCCGATGGACGCGCCGTCCTTGGCCCCGTCTTACGCGAATACATCATC
TCCGAAGCGAGTACATGCACTTGGTGTTCCACCACCAGGTCACCTGCAGTAATTAGCACCGGTAGGAAA
ATCCAACGAGGAAGCGTAGCCCCAGGCGCAGTCCTTGTTCGAGTAGCAACCAGCCTCATTCGAGTCGGA
TCCTTCCAATACTCCAACATCTCTGGTGGCATCGAACTATCTCAACACCTGGCGAACTATACGATCACC
AGGCATTTCCCTTCGTTGGTAGCTGAACTATCCGCACCAACCCCGCAACTTATGTATCACTGTTTTAA
GCGATTCTTCAGCGCCAAGCAGACACCGTTGGAAAATGGACCAGGCTGGGTTTCGTTTCACGGAGCCCTC
AACACAGACAACACGTTGATATCCGGAGAACTGTTGACTACGGCCCATGCGCTTTCATGGAGCGCTAC
CGTGGCGACGCGAAATTTAGCTCCATCGACACTTATGGTCGCTACAAATTTGAAAACCAACCTATGATC
CTCGGATGGAACATGGCCCGCTCGTAGAAACCCTCCTCCCACTCCTGGGCGCCACACCAGACGAAGGC
ATGACAGCAGCCCCAAGAAGCTCTCGTAGAATTCGATGACCTCTGCGAACAAGCAATCCGAAAAGAATTC
GCCACTGCACCTGGGCTTGACGAGTCAGACACCGGCACGCTAGAGCAGTTCCGTTGAACCTGCTCTACCTC
CATAACCCCGACATCACCACGCTGCTGCGCGCACTCACCGACAACACCGCACCCAGAGTGGCTTTGAA
GCATTGCTTCAGACTGGAAAACCCAAGACCCAGATATCGAAGCAATGCGAGCAGTAAATCCACTTTTC
ATTCCACGCAATCACCTCGTGAAGCTGCTCTCGCAGACGAGTTGAAGGGAATCTAGAAAAGTTCCAC
GAACTCCTCGCTGCTGTACCAATCCTTTTGATCCAATGCGGGCCCCGATGAACTACGCCTGCCAAGC
GAAGAAGGATTTGAAGAAGACTACATGACCTTCTGCGGTACC

>RXC01693 - 3'-Region

TAGGACAGATGGTGGGGCAGACG

>RXC01703 - 5'-Region

GTTAGACAAATGGGTAAACAGAGCTGACCTAGCGGAATCCGCCATCAACGAAAGGCATTCCGCGAGGGT
TTGGGGTCTGCCTCGAACAATCTTGGGTTT

>RXC01703 - coding Region

GTGGCATGGCCATCCAACGCCAAAGAAAACTGTTTATCCACTGGCACTACTGGTGGCAAGCGCATTAT
CTAGACTGCCTGGTGGATGCTGCTCGTCGACGCACCACAAAGGCCCGTCGCGACCGCATCAGGGACACC
ATCCGCGGCATTTCCGTTGCGCAATGTGGGCAAGCTGACCTCGAATCGTTATTACGACGACAAAGCTTGG
CTGGCCCTTGCTCTTGGGCGTGCCGGAAGTGCAGAAAGGTGCGCACACCAAAATCATTGCCCTCGTTG

GAACAAAACATCGTCGATGGCATTGATTCCCTTACTGGTGTGCTGCCGTGGCGTTCCGGCGAAACCTTC
TACAACGTTCCCTCCAACGGTCCTGCTGCGATCATGATGGCCCGCACCGACCGTTTGGACGAGGCTATG
AAAATCACCGATTGGATTTTGGACAACCTGATCGATGGCGACGGCCTTGTGATGGACGGATTGCGCATG
CGCATGCACGGACCTGAGCTTGTCCGTTCCATCCACCCGATTGCCAAGGTGTCGCCATTGGTGCGTGT
TTGGAAATTGCTCTCAAACCTGCGTGAGCGCGCAGGCTTGACCACTACTGTGGTGGATCACTGGTCCGGAT
GCCGATAAGGCAGAAGACTCCCTCAAATACTTTGCACACATCCACGCTGTGGTTTCAGGCTGTGTCCGG
AAGATGACCAACTTCCACGGCGTTATTGATTGGGACACCGGTGACGGCGACGGCGGTTTGTTCAGGGC
ATTTTGGTCCGCTATTTAGCTGATGTGGCCATCCGCTGACGATTACCAACCAACCGGGAAACC
AAAAAGATTGCAGCACGCTGCTGGAATCGGCGGAAAGCGTATGGAACCAACCGATTGGAAGTTGAT
GGCCTTCCGGTATTCGCCACAGACTGGACAACGGATGCACGCTGCCACAAAACCTTTGGTTTGTAGTTCC
TCTAGTTTGTAGCGATCTGGTGAGTGTGTGCGCGTGGATGAACGTGATCTGTCCGTGCAATTGTCCGGT
TGGATGCTCATGGAAGCAGCAGCGAAAGTGGCCGAAGAACTGGAAAACAACGGCAATAGTTACACCGGT
CGCTCCCGA

>RXC01703 - 3'-Region
TAGCCCCGATAGTGTATGTGCTG

>RXC02254 - coding Region
ATCGCCGTTGCCGAAGAAGGCGGATTGTGGGAAAACCTCCTGCAGCACCGCTTCGGTGGACATGGTGGC
CTAGCTGGTCACGCCTTGGGAAACCTCGTGATCGCGGCGTTGACCGACATTTTGGGCACCTCCCAGCAT
GCGCTTGATCAAATCGCTCAACTCGCTGGAGCCAAAGGACGCATCATCCCGGTATGTGCTGAACCTTTG
GATCTTGAAGCGGAAGTATCAGGTCTAGACTCTGATGCTCGAGTCATGCGTCAAGTTCGTGGTCAAGTG
GCGGTAGCTGCAACCCCCGGGCAGGTGCGACGCGTTTGAATCATTCGGGACAATCCAGAACCGAACCCC
GCTGCCATCGAGGCCATTCTCGATGCAGATTGGTTCACCTTGGCCCAGGTTCTTGGTTCTCCTCTGTG
ATTCCACACATTTTGGTCCCAGGGATCGTTGATGCCTTGGCGCAGACAAAAGCAACCAAAACCGTGGTG
TTAAACCTGCGTCCGAGCCAGGGGAGACCGCGGGATTCTCTGCAGAACGACACATCCATGTGCTCCGC
CAGCATGCTCGAAACCTTCAGGTGACCAAGTCATTGTGATGCCAAGACACTGTCTCACAACCCGAA
CGCAATCATGTAGAACGAGCTGCTCGCACCCCTTGGTGAGAAGTCTCCTTCCATGATGTCCAGGCTGAA
GATGGCCGTGCTCGATTACCAAGTATTCACGATCCAGCAAAGCTGTCTGCAGCGTTGCTGGCAAGTTTT
GCTGGAGCACGAAAGCGT

RXC02254 - 3'-Region
TAAGGAGTAGGCGTGTCACTGAC

RXC02255 - 5'-Region
GTGTGCAGCGTTGCTGGCAAGTTTTGCTGGAGCACGAAAGCGTTAAGGAGTAGGCGTGTCACTGACGAG
TGATATCAAACAAGAATTGGCGCAGGTCCAT

RXC02255 - coding Region
GTGGCCAAAAACAGTGTTCGTGCTGCGGAAGTGTCTGCAATTTTAAGGTTTGTGCTGGTGAGATGCAAGCT
GTCGGCGGCAAGCTGGTCATCGAAGCAAATTTGGACAGCATGCAAGTCGGTATGAGGCTTCAGGAGTTT
ATCCAAGGTTTGTACAACTCTCGAGTCGATGTGCACACCGTGAACCCGACTGTGAGCAGGAAAACGCCA
CGGATTTTGGTGCATCATTGACAATGCCGATGAAATTGCGCGACGCACCGGACTGGTCACCAGGTCT
GGACATGTGGTTAAAGGTCTAGCGCCTTCTGTGGTCAGCGGAACAATCAGTGACGCTGAAGCTGCATGG
CGCGGTGCGTTTCTAGCCAATGGATCTTTAAGTGATCCAGGTGCTTCTCTCGTTGGAGGTGTGTGT
CCTGGTCAAGAATCAGCATTGGCACTGGTTGGATGTGCGCGAAGAATTGGGATCGCGGCGAAAACGAAA
GATTCTCGAGGATTTGATCGCGTCAATGTTTCGTGATGCGGAAGCAATTGGGGCACTGCTCACTCGAATG
GGTGCCAGAAAACCTCGCATGTTGTGGGAAGAAAAACGCATCAAGCGGGAAAGTCGAACTCCGCAAACC
GGGTTGGCCAACTTCGACGATGCCAATCTGCGCAGGTGAGCCCGAGCAGCAGTTGCCGCTGCAGCGAGG
GTAGAACGCGCCATGAAGATTCTTGGTGATGATGTTTCTGAGCATTGGCTGAGGCTGGACAGCTGCGT
GTGCAGCACCGTCAGGCATCGTTGGAGGAGTTGGGCCGTTGGCTGATCCTCAAATGACCAAGGATGCT
GTGGCCGGTTCGTATTCGTCTTTTACGATGGCAGATAAGCGCGCCGAAGATCTGAAGATTCTCTGAT
ACAAATTCTGTTGTGACGGAAGATTTGTTGGAAGAAATT

RXC02255 - 3'-Region
TAGATGATTGAAGCCTAAAAACG

RXC02435 - 5'-Region
TCATGAATGTAGAACGGATTTATCGACAAGCGCCAGCAAGTACGTTGATCTCTTTAGCCATCATCGCTG
TGTACGCAGTGCGGCCATTCAATCGAGATCA

RXC02435 - coding Region

GTGACAGACAACCTGGGTTCAACCAGTATCGGTGACGCGTGGATTCTGTACGCACCGCTGATGGATGAT
GGTGGCTTTGGTCCACTGCGTGCCATCGGAGGAATGTTCTGCACATTGGCCCCGGGCACATGCTGTTG
AACCTTGTGTTGTTGTGGTTGCTGGGAAGAGAAATTGAACGAGACTTCGGTTCTGCGCTTTTCACTGCG
ATGTACTTTGTGGGCGGTATTGGTGCGTCTGCAGCTGTCATCTGGATGGATCCCTATTACCGACAGCA
GGTGCTTCCGGCGCCATTTACGCCATGATGGCTATTTTGGTGGGGCTTTTGTGTTAAGAAGCGCGGAT
ATCCGAGCACCCTTGATCCTTATCGCCATCAACATCGCCTATACCTTGATGTCCACCAATGTTTCTCTG
TGGGGACACCTTGGAGGTTTGATCACTGGAGCTTTAATTACTTGGCCAATGGTTAAAGCGAAAACCTCAA
AGAACACGGTGGATTATCGTGCTCATTGGTTTTGCTGTAGTTGTGGCTGCTGTCATTCTAGGAATTGAC
CGGGTG

RXC02435 - 3'-Region

TAGACACATTCCGCCCATTGCCC

RXC03216 - 5'-Region

GCTGTATCACAGTCAGCTGCAGCAGGTGGCGAAACCGTTGCGGTCCCAGCGGCTGCTCTGATCCCTGCA
AACAAC TAGAACTATT CAGAAAGCATCACC

RXC03216 - coding Region

ATGAAACTCGGTCTCTACAACGCGATCTTCCACGACCGCACCCCTGCCAGAAGCGCTCGCAGCCATCAAA
GCTGCAGGTCTCACCGGAATTGAACTCAACACCGGCGGATTTTTGCCTGCAACCCACATCCCAGCATC
GATGACATCCTGGTCAGCGATGATGCCCCGCGATGAATTCCTCGGGATTTTCGAAGGCACCGGCGTGCAC
ATCTACGGCCTTAAGTGAACGGCAACCCGCTTCACCCCAACAAGGCGATCGGGGACAAGCATGCCGAA
GACATTCGACGTTCCATCCGCCTCGCAGAGCGCCTCGGCCAAAACCGTGTGGTCAACATGTCTGGTCTT
CCTGGTGGCGAACCAGCGCGGAAGTACACCAACTGGGTGTCAACGCGTGGAACCTCCGCAGCCTTGGAT
GTCCTTGATTACCAATGGGATATCGCAGCTGAATTCCTGGCGCGAGACCGACCGCTTCGCCGCGAGATCA
GGCGTGAAAGTGGCTCTTGAGCTGCACCCACAGAACATCGTGTTCAACTCCGCTGACGTGCATAAGCTC
ATCGATCTCACCGGCGCCACCCACGTGGGCGTGAAGTGGATGCATCACACCTGTTCTGGCAGCAGATG
GACCCAATCGCTGTGATTGATCACCTCGGCGAGCTCATCTTCCACGCGCGCGCCAAAAGACGTGCGAGTT
AATAAGGAATGGGCTCAGCTCAACGGTGTGCTGGACAACAGCTTCCGACGCCTTGACCCATCCGAAAAC
CGCACCAACTTGGGCGGCGACGAGTGGGCGAATGAATGGCCAAAGAACTCTGCTTGGGATTTCTGTTGCT
CTGGGCGCGGTGATGACGTTGCTTACTGGACCGAATTCCTCCGCGCACTTCACCGCGTCGATCCAAAC
ATGCTGGTCAACATCGAACACGAGGATGTTTCACTCGGTGCGGAAGAAGGCGTCAACGAAGCCGCTAAG
GTGCTGATCGAGGCCAACAAGGCACTCGAAGAGTCCCTGGTTTCT

RXC03216 - 3'-Region

TAAAAAACTACGCCTGCCCCGCAACGCTT